JVC

SERVICE MANUAL

REAR PROJECTION TELEVISION

AV-65WP94/HA

BASIC CHASSIS

SB3





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Items		Contents			
Dimensions (W \times H \times D)		156.6cm × 149.5cm × 72.8cm (61-3/4" × 58-7/8" × 28-3/4")			
Mass		116 kg (256 lbs)			
Reception System	Analog	CCIR (M)			
		ATSC terrestrial			
Color System (Analog)		NTSC			
Sound System (Analog)		BTSC (Multi Channel Sound)			
Receiving Channels	VHF Low	02ch~06ch : 54MHz~88MHz			
and Frequency	VHF High	07ch~13ch : 174MHz~216MHz			
(Analog)		14ch~69ch : 470MHz~806MHz			
	CATV	54MHz~804MHz			
		Low Band : 02~06, A-8 by 02~06&01 High Band : 07~13 by 07~13			
		Mid Band : 07~13 by 07~13			
		Super Band : J~W by 23~36			
		Hyper Band: W+1~W+28 by 37~64			
		Ultra Band : W+29~W+84 by 65~94, 100~125			
		Sub Mid Band : A4~A1 by 96~99			
TV / CATV Total Channel		180 Channels			
Intermediate Frequency		45.75MHz			
(Analog)	Sound IF	41.25MHz (4.5MHz)			
Color Sub Carrier (Analog)		3.58MHz			
Power Input		AC 120V, 60Hz			
Power Consumption		320W (Max)			
Screen		Transparent screen (unitized fresnel lens / double lenticular lens)			
Screen Size		65" (165cm) Measured diagonally, 16:9 ratio (W:143.9 cm, H:81.0 cm)			
Projection Tube		17cm (6.7") tube × 3 (R/G/B)			
High Voltage		31kV±0.15kV (at zero beam current)			
Speaker		16cm round × 2 (Woofer), 5.5cm round × 2 (Tweeter)			
Audio Power Output		10W+10W			
Antenna Terminal (VHF/UHF	, ATSC)	75Ω unbalanced, F-type connector \times 2			
External Input (1/2/3/4)		1V (p-p), 75Ω (RCA pin jack \times 4)			
		500mV(rms) (-4dBs), high impedance (RCA pin jack × 8)			
		Mini-DIN 4pin connector × 3			
	[INPUT-1/3/4]	Y: 1V (p-p) positive, 75Ω negative sync provided C: 0.286V(p-p) (burst signal)			
	Component Video	Y: 1V (p-p), 75 Ω (RCA pin jack \times 2)			
		Pb: ± 0.35 V(p-p), 75Ω (RCA pin jack \times 2)			
	-	Pr: ± 0.35 V(p-p), 75Ω (RCA pin jack \times 2)			
Digital Input	Video	DVI-D 24pin connector (Single link 19pin)			
		(Digital-input terminal is not compatible with computer signal)			
	Audio	500mV(rms) (-4dBs), high impedance (RCA pin jack × 2)			
Audio Output		VARI : More than 0 to 1000mV (rms) (+2.2dBs)			
		FIX: 500mV(rms) (-4dBs), low impedance (1kHz when modulated 100%)			
ATSC Output	\/idaa	(RCA pin jack \times 2) 1V (p-p), 75 Ω (RCA pin jack)			
A 1 SC Output		17 (p-p), 7512 (RCA pin jack) 250mV(rms) (-10dBs), Fs-18dB low impedance (RCA pin jack × 2)			
S-Video		Mini-DIN 4pin connector × 1			
		Y: 1V (p-p), 75Ω			
		C: 0.286V(p-p) (burst signal), 75Ω			
Digital audio optical output		Digital SPDIF × 1			
iLink Input/Output		TS In/Out (4-pin, S400) × 1			
		IEEE1394 compliant DTCP digital copy protection compatible			
Subwoofer Output		More than 0 to 1000mV (rms) (+2.2dBs) (RCA pin jack x1)			
Speaker Input		60W 16Ω (maximum input)			
AV Compulink III		Ø3.5mm mini jack × 1			
Remote Control Unit		RM-C12G (AA/R6/UM-3 battery × 2)			

Design & specifications are subject to change without notice.

SECTION 1 PRECAUTION

1.1 SAFETY PRECAUTIONS

- (1) The design of this product contains special hardware, many circuits and components specially for safety purposes. For continued protection, no changes should be made to the original design unless authorized in writing by the manufacturer. Replacement parts must be identical to those used in the original circuits. Service should be performed by qualified personnel only.
- (2) Alterations of the design or circuitry of the products should not be made. Any design alterations or additions will void the manufacturer's warranty and will further relieve the manufacturer of responsibility for personal injury or property damage resulting therefrom.
- (3) Many electrical and mechanical parts in the products have special safety-related characteristics. These characteristics are often not evident from visual inspection nor can the protection afforded by them necessarily be obtained by using replacement components rated for higher voltage, wattage, etc. Replacement parts which have these special safety characteristics are identified in the parts list of Service manual. Electrical components having such features are identified by shading on the schematics and by (△) on the parts list in Service manual. The use of a substitute replacement which does not have the same safety characteristics as the recommended replacement part shown in the parts list of Service manual may cause shock, fire, or other hazards.

(4) Use isolation transformer when hot chassis.

The chassis and any sub-chassis contained in some products are connected to one side of the AC power line. An isolation transformer of adequate capacity should be inserted between the product and the AC power supply point while performing any service on some products when the HOT chassis is exposed.

- (5) Don't short between the LIVE side ground and ISOLATED (NEUTRAL) side ground or EARTH side ground when repairing.

 Some model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE: (⊥) side GND, the ISOLATED (NEUTRAL): (⅓) side GND and EARTH: (⅓) side GND.

 Don't short between the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND and never measure the LIVE side GND and ISOLATED (NEUTRAL) side GND or EARTH side GND at the same time with a measuring apparatus (oscilloscope etc.). If above note will not be kept, a fuse or any parts will be broken.
- (6) If any repair has been made to the chassis, it is recommended that the B1 setting should be checked or adjusted (See B1 POWER SUPPLY check).
- (7) The high voltage applied to the picture tube must conform with that specified in Service manual. Excessive high voltage can cause an increase in X-Ray emission, arcing and possible component damage, therefore operation under excessive high voltage conditions should be kept to a minimum, or should be prevented. If severe arcing occurs, remove the AC power immediately and determine the cause by visual inspection (incorrect installation, cracked or melted high voltage harness, poor soldering, etc.). To maintain the proper minimum level of soft X-Ray emission, components in the high voltage circuitry including the picture tube must be the exact replacements or alternatives approved by the manufacturer of the complete product.
- (8) Do not check high voltage by drawing an arc. Use a high voltage meter or a high voltage probe with a VTVM. Discharge the picture tube before attempting meter connection, by connecting a clip lead to the ground frame and connecting the other end of the lead through a 10k Ω 2W resistor to the anode button.
- (9) When service is required, observe the original lead dress. Extra precaution should be given to assure correct lead dress in the high voltage circuit area. Where a short circuit has occurred, those components that indicate evidence of overheating should be replaced. Always use the manufacturer's replacement components.

(10) Isolation Check (Safety for Electrical Shock Hazard)

After re-assembling the product, always perform an isolation check on the exposed metal parts of the cabinet (antenna terminals, video/audio input and output terminals, Control knobs, metal cabinet, screw heads, earphone jack, control shafts, etc.) to be sure the product is safe to operate without danger of electrical shock.

a) Dielectric Strength Test

The isolation between the AC primary circuit and all metal parts exposed to the user, particularly any exposed metal part having a return path to the chassis should withstand a voltage of 1100V AC (r.m.s.) for a period of one second.

(.... Withstand a voltage of 1100V AC (r.m.s.) to an appliance rated up to 120V, and 3000V AC (r.m.s.) to an appliance rated 200V or more, for a period of one second.) This method of test requires a test equipment not generally found in the service trade.

b) Leakage Current Check

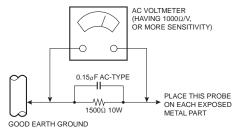
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Using a "Leakage Current Tester", measure the leakage current from each exposed metal part of the cabinet, particularly any exposed metal part having a return path to the chassis, to a known good earth ground (water pipe, etc.). Any leakage current must not exceed 0.5mA AC (r.m.s.).

However, in tropical area, this must not exceed 0.2mA AC (r.m.s.).

Alternate Check Method

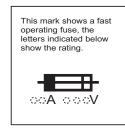
Plug the AC line cord directly into the AC outlet (do not use a line isolation transformer during this check.). Use an AC voltmeter having 1000Ω per volt or more sensitivity in the following manner. Connect a 1500Ω 10W resistor paralleled by a $0.15\mu F$ AC-type capacitor between an exposed metal part and a known good earth ground (water pipe, etc.). Measure the AC voltage across the resistor with the AC voltmeter. Move the resistor connection to each exposed metal part, particularly any exposed metal part having a return path to the chassis, and measure the AC voltage across the resistor. Now, reverse the plug in the AC outlet and repeat each measurement. Any voltage measured must not exceed 0.75V AC (r.m.s.). This corresponds to 0.5mA AC (r.m.s.).

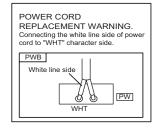
However, in tropical area, this must not exceed 0.3V AC (r.m.s.). This corresponds to 0.2mA AC (r.m.s.).



(11) High voltage hold down circuit check.

After repair of the high voltage hold down circuit, this circuit shall be checked to operate correctly. See item "How to check the high voltage hold down circuit".





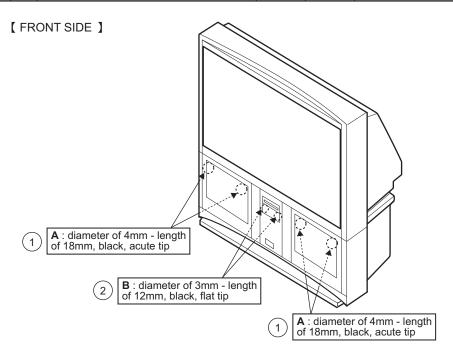
1.2 INSTALLATION

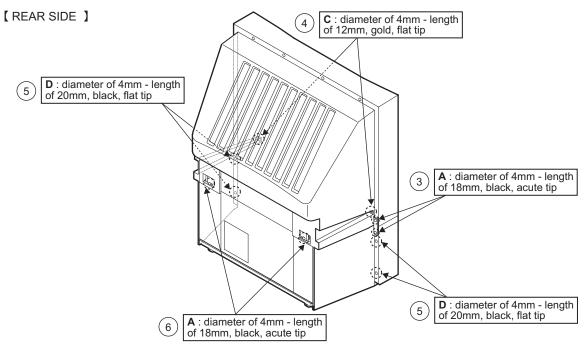
1.2.1 REMOVING THE UPPER UNIT FROM THE LOWER UNIT

1.2.1.1 TYPES AND PLACES OF SCREWS

• Be careful not to confuse the following four types of screws.

Туре	Ref.	Place for attaching screws	Quantity	Color	Shape	
Α	1	Front panel bracket	4			
Α	3	Rear cover bracket	2	Black	diameter of 4mm-length of 18mm, acute tip	(mmm >
Α	6	Rear cover (for attaching the body)	2			
В	2	Inside the Front door (in the jack part)	2	Black	diameter of 3mm-length of 12mm, flat tip	()
С	4	Rear cover (for attaching the body bracket)	2	Gold	diameter of 4mm-length of 12mm, flat tip	(),,,,,,,,,,
D	⑤	Rear cover (for attaching the speaker panel)	4	Black	diameter of 4mm-length of 20mm, flat tip	(





1.2.1.2 DISASSEMBLY PROCEDURE

- Make sure that the power cord is pulled out from the AC wall socket.
 - (1) Remove the 2 screws [A] on the left rear side of the set, and then remove the rear cover bracket. [Fig.1]
 - (2) Remove the 2 screws [B] inside of the front door. [Fig.2] * The screws attach the speaker grill.
 - (3) Remove the 2 screws [D] on the left edge of the rear cover, and remove the 2 screws [D] on the right edge of the rear cover. [Fig.2]
 - * The screws attach the speaker grill.
 - (4) Pull the speaker grill in front direction, and remove the speaker grill. [Fig.2]
 - (5) Remove the connector [CN00Z] for the auto-convergence sensor on the left side of the set, and the clamp fixing the wire. [Fig.2]
 - (6) Remove the 2 screws [A] on the left front panel bracket, and remove the 2 screws [A] on the right front panel bracket. [Fig.2]
 - (7) Remove 1 screw C on the left edge of the rear cover, and 1 screw C on the right edge of the rear cover. [Fig.3]
 - (8) Remove 1 screw [A] on the left side of the rear cover, and remove 1 screw [A] on the right side of the rear cover. [Fig.3]
 - (9) Move the rear cover approx. 3cm in rear direction. Then, remove the upper unit from the lower unit by lifting the upper unit slowly. [Fig.3]
 - VOID seal [a] attached to the left front panel bracket in order to confirm that a person except JVC installation workers has disassembled the set. This seal is removed when the upper unit is removed, and the letters of "VOID" appears in the place where the seal. [Fig.2]
 - Two or more people are required to move the upper unit.
 - Reflecting mirror is attached to the upper unit. So, handle it carefully so as to protect it from shocks.
 - In placing the upper unit on the ground, be careful not to insert the connector for the auto-convergence on the right side of the upper unit between the upper unit and the ground.
 - In placing the upper unit on the ground, be careful not to insert dust inside the upper unit.
 - Be careful not to hurt yourself because metal brackets for attaching the front panel are on the ceiling part of the lower unit.
- (10) Cover the lower unit with the Top Sheet in order not to insert dust in the lower unit. Top Sheet is the one used for package. [Fig.4]

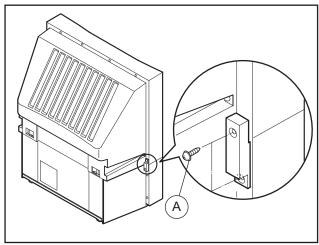
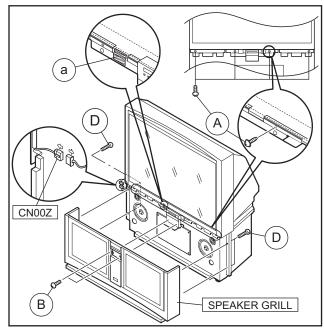


Fig.1





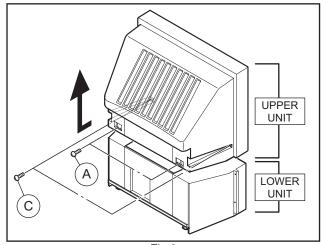


Fig.3

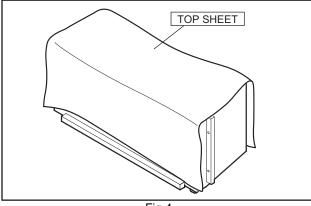


Fig.4

1.2.1.3 REASSEMBLY PROCEDURE

- Make sure that power cord is pulled out from the AC wall socket.
- · Remove the Top Sheet which covers the lower unit.
 - (1) Lift the upper unit slowly, and then place the upper unit on the lower unit.
 - In placing the upper unit on the lower unit, be careful not to insert the connector for the auto-convergence on the left side of the upper unit between the upper unit and the lower unit.
 - (2) Adjust the front side of the upper unit to the brackets on the lower unit for attaching the upper unit.
 - (3) Attach 2 screws [$\bf A$] to the both side of the rear cover. [Fig.2]
 - (4) Attach 2 screws [A] to the both edge of the rear cover. [Fig.2]
 - (5) Attach the 4 screws [A] to the front panel bracket. [Fig.2]
 - (6) Attach the VOID seal [b] on the front right side of the set to the right front panel bracket. [Fig.5]
 - (7) Attach the 2 screws [B] to the front door. [Fig.2]
 - (8) Attach the speaker grill to the front side.
 - (9) Attach 4 screws [D] to the both edge of the rear cover. [Fig.2]
- (10) Attach the 2 screws [A] to the rear cover bracket.[Fig.1]
- (11) Attach the connector for the auto-convergence sensor.
 - Make sure that all the screws are attached certainly in order to fix the upper unit.
 - After assembly procedure is completed, make sure that there is no dust in the inner side of the screen.



A protection circuit, which stops the power supply to the upper and lower units of the unit, is added from this set.

Thanks to the protection circuit, the power supply is turned off automatically when you try to turn the power on while the unit is broken out into the upper and lower units and the connector CN00Z is disconnected.

When the power is turned off by the protection circuit, POWER LED will flash on and off at intervals of three seconds. This is counted at SPRT of the self-diagnostic mode.

Because of this protection circuit, you cannot turn the power on when you try to check the functions and the signal waveform of the unit during servicing. It is necessary to invalidate the functions of protection circuit for turning the power on.

Method to invalidate the functions of protection circuit

Cause short circuit the pins 9 and 10 of the CN00Z connector on the CONVERGENSE OUT PWB ASS'Y.

NOTE:

There are two kinds of methods to invalidate the functions of protection circuit.

- Causes short circuit the pins 9 and 10 of the <u>CN00Z</u> connector on the CONVERGENCE OUT PWB ASS'Y.
- Plug the AC wall socket with pressing the [VOL+] button on the front control panel. Then functions of protection circuit is invalidated until the AC wall socket is unplugged.

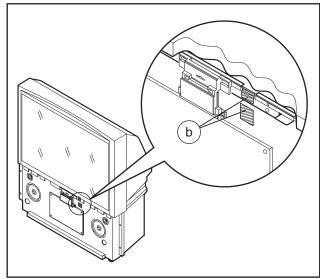
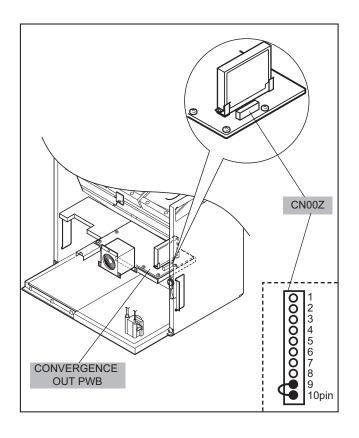


Fig.5



1.2.2 INSTALLATION SITE

- (1) The rear of this set is provided with ventilation openings. Install the set more than 5 cm from a wall and in a location with good ventilation.
- (2) Avoid the following types of locations.
 - a) Unstable locations (location must be able to withstand heavy weight).
 - b) Locations subjected to direct sunlight.
 - c) Near stoves or other heating devices.
 - d) Locations subjected to humidity or oily smoke.
 - e) Dusty locations.
 - f) Locations with strong vibration.

1.2.3 INSTALLATION ADJUSTMENT

When installing, moving or changing the orientation of the set, perform static convergence adjustment according to the following procedure.

Adjusting CRT color convergence have two method, AUTO, MANUAL and RESET. It adjust on the MENU screen.

NOTE:

Please have you TV on for at least 20 minutes before sing this feature.

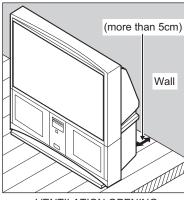
This adjustment will be needed only when the colors of the characters/lines are separated and lack in distinction. If not, please don't perform the adjustment.

AUTO

- (1) Press the [MENU] key, and select the "CONVERGENCE" in the INITIAL SETUP menu with [function up/down] key.
- (2) Press the [function left/right] key, then CONVERGENCE menu appear.
- (3) Press the [function up/down] key, and select the "AUTO".
- (4) Press the [function left/right] key.
- (5) The convergence adjustment will start. It will take about 50 seconds.

MANUAL

- (1) Press the [MENU] key, and select the "CONVERGENCE" in the INITIAL SETUP menu with [function up/down] key.
- (2) Press the [function left/right] key, the CONVERGENCE menu appears.
- (3) Press the [function up/down] key, and select the "MANUAL".
- (4) Press the [function left/right] key, then CONVERGENCE adjustment screen appear. [Fig.1]
 - If all the crosses are white, no convergence adjustment is needed.
- (5) Select the location you want to adjust by using the [number (2/4/5/6/8)] keys on the remote control unit. [Fig.2]
- (6) Press the [SELECT] key to change the color of the box to the color of the cross you want to adjust (red or blue).
 - · You cannot adjust the green cross.
- (7) Use the [function up/down] key and the [function left/right] keys to adjust the position of the cross.
- (8) Adjust the three colors crosses until they overlap and appear as a single white cross.
- (9) Press the [OK] key.



VENTILATION OPENING

NOTE:

- When you adjust the convergence, make sure you start with the center position (position 5), and work your way around radial for best results.
- When you make the adjustment in the center (positions 5), you are making the adjustment for the whale screen. In other positions, you are making the adjustment only in that area.
- You can reset the adjustment if you do not like the results, See below.
- If you perform AUTO CONVERGENCE after performing MANUAL CONVERGENCE, your manual convergence you performed will be cancelled.
- (10) Press the [menu] key to end the convergence adjustment procedure.

RESET

RESET in the CONVERGENCE menu resets all convergence adjustments to the factory default setting.

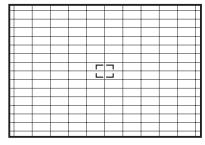


Fig.1

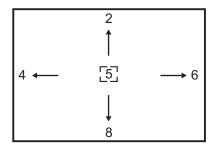


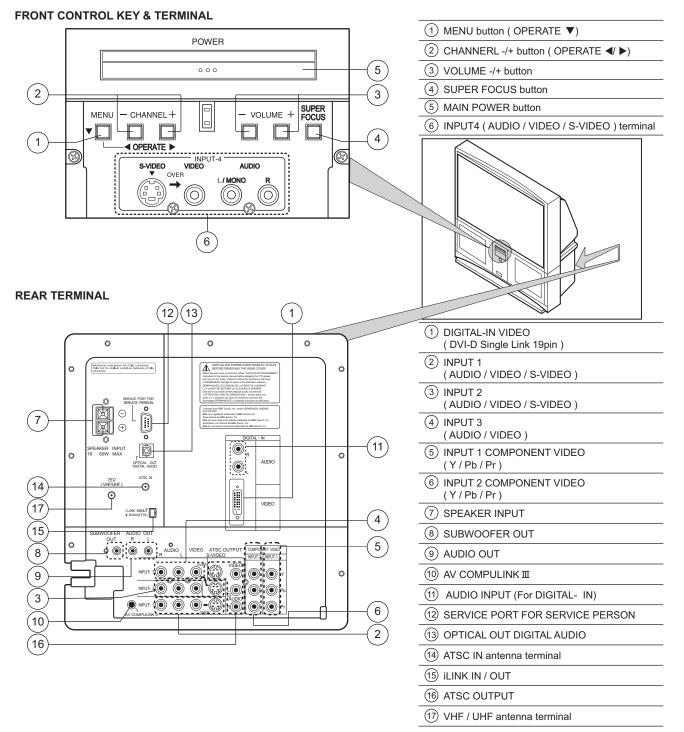
Fig.2

SECTION 2 SPECIFIC SERVICE INSTRUCTIONS

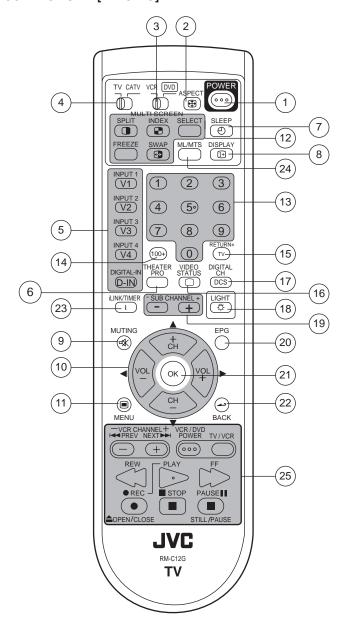
2.1 FEATURES

- Rear Projection HDTV with built-in ATSC tuner.
- · New chassis design enable use of an interactive on screen control.
- 3-2 PULL DOWN: You can enjoy DVD movies at the highest picture quality.
- MOTION COMPENSATION: With this function, the seamless reproduction of dynamic motion on the screen has been realized.
- Bullet-in DSD (Digital Supper Detail) circuit and 3 dimension Y/C separate circuit.
- Receive DTV broadcast (1080i / 720p / 480p / 480i)
- Built-in HDCP / Component (Y / Pb / Pr) input.
- · Built-in Hyper Sound, BBE circuit.
- D.I.S.T. 1500i : D.I.S.T. 1500i is the function to change a input visual signal into the high definition 1500 interlace signal.

2.2 FUNCTIONS



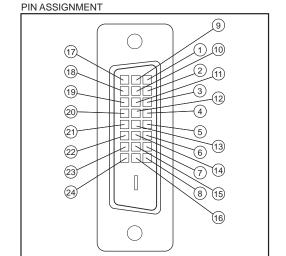
REMOTE CONTROL UNIT [RM-C12G]



- 1 POWER key
- 2 ASPECT key
- (3) VCR / DVD switch
- (4) TV / CATV switch
- (5) Input select keys
- (6) THEATER PRO key
- 7 SLEEP TIMER key
- 8 DISPLAY key
- 9 MUTING key
- (10) CH + / CH / VOL + / VOL keys (Function up / down / right / left keys)
- 11) MENU key
- 12 MULTI SCREEN operation keys
- 13 Number (1~0) keys
- (14) 100+ key
- (15) RETURN+/TV key
- 16 VIDEO STATUS key
- 17 Digital channel key
- 18 LIGHT key
- 19 SUB CHANNEL (/ +) keys
- 20 EPG key
- 21) OK key
- 22 BACK key
- ② iLINK / TIMER key
- 24 ML / MTS key
- 25) VCR / DVD operation keys

DIGITAL-IN TERMINAL FUNCTIONS

Pin No.	Pin name	Pin No.	Pin name
1	RX2-	13	RX3+
2	RX2+	14	5V
3	GND2/ 4	15	GND
4	RX4-	16	HTPLG
5	RX4+ 17 RX		RX0-
6	SCL	18	RX0+
7	SDA	19	GND0/5
8	NC	20	RX5-
9	RX1-	21	RX5+
10	RX1+	22	GNDC
11	GND1/3	23	TXC+
12	RX3-	24	TXC-



2.3 TECHNICAL INFORMATION

2.3.1 MAIN MICRO COMPUTER (CPU) FUNCTION (MN102H75K)

Pin No.	Pin name	I/O	Function
1	CONV.SW	0	
2	/MICON_V	I	V.sync for OSD
3	LB_PRO	I	Low B protection detection
4	NC	-	
5	/RST	I	Main CPU reset [Reset:L]
6	NC	-	
7	/TEST	I	+3.3V
8	OSD_YS	0	OSD Ys output
9	NC	-	
10	NC	-	
11	A_MU	0	Audio muting [Muting:H]
12	/MICON_H	I	H sync for OSD
13	M_MU	0	ATSC audio muting [Muting:H]
14	P46,OSDXI	-	
15	P45,OSDXO	-	
16	SDA2	I/O	I ² C bus (CLK) for MTS
17	AC_IN	I	AC (60Hz) for clock (timer)
18	SCL2	0	I ² C bus (DATA) for MTS
19	TU_POW	0	
20	VCOI	I	LPF input
21	PDO	0	LPF output
22	/IP_RESET	0	Reset for AMDP
23	OSD_YM	0	OSD Ym
24	OSD_B	0	OSD blue
25	POWER_LED	0	Lighting for POWER LED [HIGH:L]
26	OSD_G	0	OSD green
27	OSD_R	0	OSD red
28	VREF	I	Reference voltage for OSD
29	IP_ERR	I	AMDP program load detect.
30	IREF	ı	Reference current for OSD
31	COMP	I	Phase adjust for OSD
32	AVDD	I	+3.3V
33	CLL	I	Clamp low level
34	VREFLS	I	Standard voltage for SUB CCD
35	SUB_CCD	I	Video for sub closed caption decoder
36	NC	-	
37	VSS	ı	GND
38	MAIN_CCD	I	Video for main closed caption decorder
39	VREFHS	I	Standard voltage for MAIN CCD
40	CLH	I	Clamp high level
41	VDD/VPP	I	+3.3V
42	CLK SW1	0	IP clock switch [525p / MULTI:H]

Pin No.	Pin name	I/O	Function
43	CLK SW2	0	IP clock switch
			[525i / 1125i / 750p:H]
44	ON_TIM	0	Lighting for on timer operating [LOW / ON:H]
45	SBO 0	0	Convergence control [TXD]
46	SBD 0	-	Convergence control [RXD]
47	SBT1		
48	AP_DATA	ı	
49	BS_RST	ı	
50	SQR	ı	
51	BS1.5CTL	ı	
52	ABL/ACL	0	ABL/ACL control [S47]
53	CHROMA	0	Gamma control [S48]
54	DC_COTL	0	Black level DC reproduce control
55	BS_POW	-	
56	I2C_STOP	-	
57	TU2_AID	I	Main AFT voltage
58	/LOB_POW	0	LowB power control [Power on:L]
59	COMPULINK	I	AV COMPULINK III control
60	/POWERGOOD	I	Power condition check
61	MECA_ON	I	Machine SW interrupt [Pushing:L]
62	/MAIN_POW	0	Main power control [Power on :L]
63	NC		
64	/B1 POW	0	B1 power control [Power on:L]
65	C/N	-	
66	X_RAY	I	X-ray protection detection [Protect 0.7V]
67	NC	-	
68	KEY2	ı	Front key input 2 (CH+ Vol-/+)
69	KEY1	I	Front key input 1 (Menu CH-)
70	SCL1	0	I ² C bus (CLK) for EEP-ROM
71	SDA1	I/O	I ² C bus (SDA) for EEP-ROM
72	REMO	I	Remote control input
73	AP_REQ	-	
74	VSS	I	GND
75	OSC2	0	4MHz oscillation for system clock
76	OSC1	I	4MHz oscillation for system clock
77	VDD	ı	+3.3V
78	SCL0	0	I ² C bus (CLK) for general
79	AP_CLK	-	
80	SDA0	I/O	I ² C bus (SDA) for general
81	NC	-	
82	BS_TXD	-	
83	NC	-	
84	P_MU	0	Picture muting

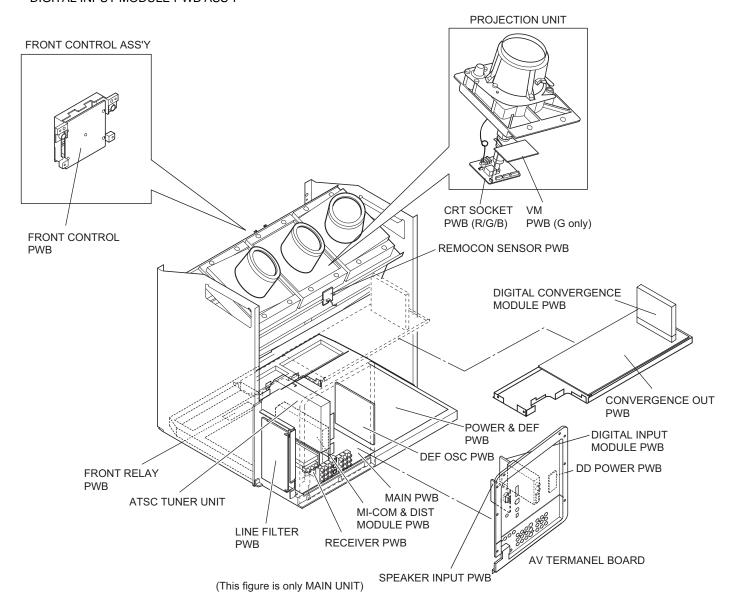
2.4 MAIN PARTS LOCATION

2.4.1 PWB ASS'Y ARRANGEMENT

The PWB ASS'Y is indicated below.

- MAIN PWB ASS'Y (SSB-1079A-M2)
- RECEIVER PWB ASS'Y (SSB0R379A-M2)
- MI-COM & DIST MODULE PWB ASS'Y (SSB0D079A-M2)
- POWER & DEF PWB ASS'Y (SSB-2079A-M2)
- DEF OSC PWB ASS'Y (SSB0H077A-M2)
- LINE FILTER PWB ASS'Y (SSB-9079A-M2)
- FRONT RELAY PWB ASS'Y (SSB0L268A-M2)
- CONVERGENCE OUT PWB ASS'Y (SSB-5079A-M2)
- DIGITAL CONVERGENCE MODULE PWB ASS'Y (SSB0K077A-M2)
- DIGITAL INPUT MODULE PWB ASS'Y

- REMOCON SENSOR PWB ASS'Y (SSB-8068A-M2)
- R CRT SOCKET PWB ASS'Y (SSB-3177A-M2)
- G CRT SOCKET PWB ASS'Y (SSB-3277A-M2)
- B CRT SOCKET PWB ASS'Y (SSB-3377A-M2)
- G VM PWB ASS'Y (SSB-7277A-M2)
- FRONT CONTROL PWB ASS'Y (SSB0L077A-M2)
- SUB POWER PWB ASS'Y (SSB-9379A-M2)
- DD POWER PWB ASS'Y (SSB-9479A-M2)
- SPEAKER INPUT PWB ASS'Y (SSB0A079A-M2)
- ATSC TUNER UNIT



2.5 SCREEN HANDLING CAUTIONS

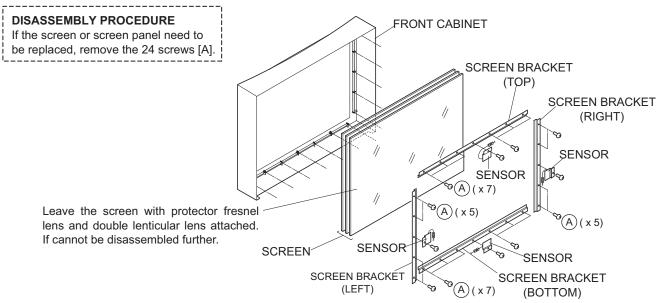
2.5.1 SCREEN STORAGE

Store the SCREEN ASS'Y in a standing position in order to avoid deformation. If the screen is stored horizontally, there is risk of deforming the screen face.

When necessary to place the SCREEN ASS'Y horizontally, position the screen side upwards and sure to place spacers between the screen and resting site (floor or stand etc.) to prevent the screen from sagging.

2.5.2 SCREEN SURFACE

Since the screen surface is easily scratched or soiled, use ample care when handling.



2.6 PROJECTION UNIT REPLACEMENT

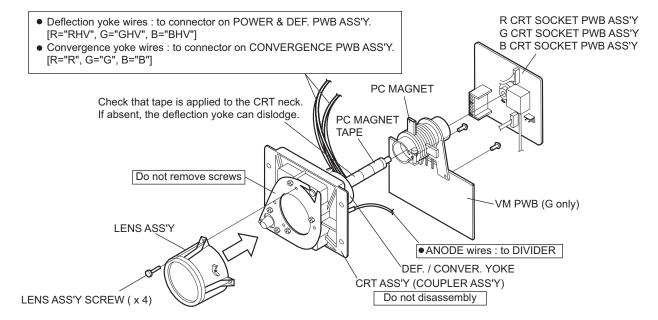
2.6.1 ADJUSTMENT DURING REPLACEMENT

When replacing the three R, G and B projection units, first replace the R and B units and perform focus / screen / raster centering adjustments with reference to the G unit. Then replace the G unit and perform G focus / screen / convergence adjustment. Finally perform R & B. Convergence adjustments. Use care to simultaneously removes all three-projection units.

2.6.2 DISASSEMBLY CAUTION

The projection units include locations that are not to be disassembled during service. When replacing projection unit parts, disassemble to the state indicated in the figure below.

The figure indicates screws and wires that are not to be removed. Use care not to remove these.



SECTION 3 DISASSEMBLY

3.1 DISASSEMBLY PROCEDURE

 Make sure that the power cord is pulled out from the AC wall socket.

3.1.1 SPEAKER GRILLE

- (1) Remove 4 screws [A] from rear side.
- (2) Open the door of the FRONT CONTROL BOX and remove 2 screws [B] from front side.
- (3) Take out the SPEAKER GRILLE.

3.1.2 SPEAKER (WOOFER)

- Take out the SPEAKER GRILLE.
 - (1) Remove 4 screws [C].
 - (2) Take out the WOOFER.
 - (3) Disconnect the speaker wire from speaker terminal.
- *Remove the both side speaker same manner.

3.1.3 SPEAKER (TWEETER)

- Take out the SPEAKER GRILLE.
 - (1) Remove 2 screws [D].
 - (2) Take out the TWEETER.
 - (3) Disconnect the speaker wire from speaker terminal.
- *Remove the both side speaker same manner.

3.1.4 FRONT BOARD

- · Take out the SPEAKER GRILLE.
 - (1) Remove 4 screws [E].
 - (2) Take out the FRONT BOARD.

3.1.5 FRONT CONTROL BOX

- Take out the SPEAKER GRILLE.
 - (1) Remove 2 screws [F] and 2 screws [G] attaching the FRONT CONTROL BOX.
 - (2) Disconnect the connector [BH], [R], [BG] on the FRONT CONTROL PWB.
 - (3) Take out the FRONT CONTROL BOX.

3.1.6 FRONT CONTROL PWB

- Take out the SPEAKER GRILLE.
- · Take out the FRONT CONTROL BOX.
 - (1) Remove 3 screws [H] from rear side of FRONT CONTROL BOX.
 - (2) Take out the FRONT CONTROL PWB.

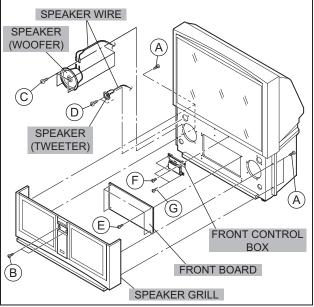


Fig.1

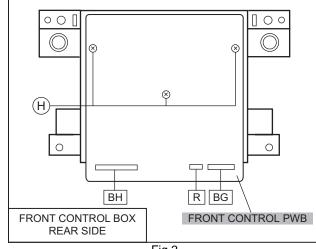


Fig.2

• Prior to disassembly outlet without fail. (To Short the SB connection is inserted into the connectors, do not it is inserted into the connector to the inactivation of the power corp.

- Prior to disassembly, unplug the power code from the AC outlet without fail. (Turn the power "off".)
- Short the SB connector [1] pin and [2] pin of the DIGITAL INPUT MODULE. (At the time of assembling)
- Before the rear panel is inserted into the cabinet, release the short-circuit between the SB connector [1] pin and [2] pin of the DIGITAL INPUT MODULE.
- After releasing the short-circuit between the SB connectors, do not turn the power on until the rear panel is inserted into the cabinet.
- * Negligence in carrying out the above steps may cause the inactivation of the TV.

3.1.7 SCREEN ASS'Y

- Take out the SPEAKER GRILLE.
- · Take out the FRONT CONTROL BOX.
 - (1) Remove the 4 screws [1] attaching the FRONT BRACKET.
 - (2) Remove 10 screws [J] from rear side.
 - (3) Take out the connector [CN00Z].
 - (4) Take out the SCREEN ASS'Y.

NOTE:

- Please place the SCREEN ASS'Y on a flat table without fail.
- · Because of the large size, at least two parsons are recommended for removal and reassemble.
- · Use core not to scratch the screen during work.
- During assembly, be sure to engage the left and right tabs with the cabinet mounting positions.
- · When than sporting the SCREEN ASS'Y, avoid grasping the top of the screen panel, instead grasp the left and right areas.

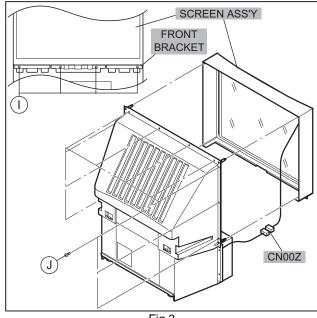


Fig.3

3.1.8 CONVERGENCE SENSOR

- · Take out the SPEAKER GRILLE.
- Take out the FRONT CONTROL BOX.
 - (1) Remove the 4 screws [K] attaching the each SENSOR HOLDER.
 - (2) Remove the claw of the SENSOR HOLDER to remove the CONVERGENCE SENSOR.

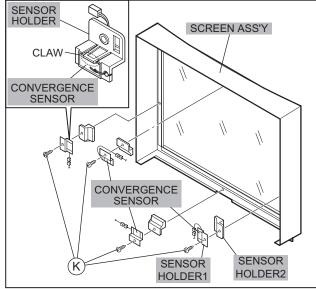


Fig.4

3.1.9 MIRROR

- · Take out the SPEAKER GRILLE.
- Take out the FRONT CONTROL BOX.
- Take out the SCREEN ASS'Y.
 - (1) Remove 4 screws [L] attaching the mirror brackets of the upper.
 - (2) Raise slightly to disengage of the mirror from the bottom bracket.(If necessary, loosen the screws attaching the bottom bracket)
 - (3) Take out the MIRROR.

NOTE:

- The MIRROR is front-coated. Do not touch the front of the MIRROR.
- (4) At least 2 persons are recommended for removable and reassemble.

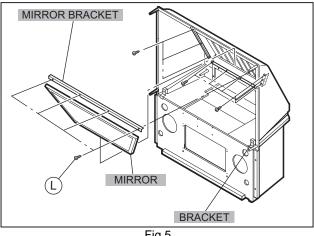


Fig.5

3.1.10 REAR PANEL

- (1) Loosen 4 screws [M].
- (2) Remove 4 screws [N].
- (3) Raise slightly REAR PANEL upward.
- (4) Take out the REAR PANEL.

NOTE:

- Before the rear panel is inserted into the cabinet, release the short-circuit between the [SB] connector (1) pin and (2) pin of the DIGITAL INPUT UNIT. (Refer to "CAUTION AT DISASSEMBLY" on Page 14).
- After releasing the short-circuit between the [SB] connectors, do not turn the power on until the rear panel is inserted into the cabinet.
- Prior to starting the work, be sure to read the following written instructions on the CAUTION LABEL attached to the REAR PANEL.

⚠Prior to starting the work, be sure to read the following written instructions on the CAUTION LABEL attached to the REAR PANEL.

UNPLUG THE POWER CORD FROM AC OUTLET BEFORE OPEN THE REAR COVER (PANEL).

When the rear cover (panel) is removed, follow "CAUTION AT DISASSEMBLY" procedure in the service manual before plugging the TV's power cord into an AC outlet.

Failure to follow the procedure will result in PERMANENT damage to some of the television features.



- (1) Remove 2 screws [O].
- (2) Take out the REAR COVER BRACKET.

3.1.12 PARTITION

- · Take out the REAR PANEL.
 - (1) Pull out the PARTITION back ward.

3.1.13 REAR COVER

- · Take out the SPEAKER GRILLE.
- · Take out the FRONT CONTROL BOX.
- · Take out the SCREEN ASS'Y.
 - (1) Remove 2 screws [P].
 - (2) Remove 2 screws [Q] from front side.
 - (3) Slightly pull for backside to disengage of the REAR COVER from hooks.
 - (4) Take out the REAR COVER.

NOTE:

 Because of the large size, at least two persons are recommended for removal and reassemble.

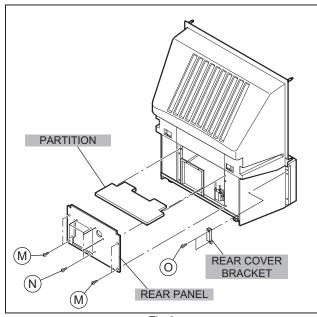


Fig.6

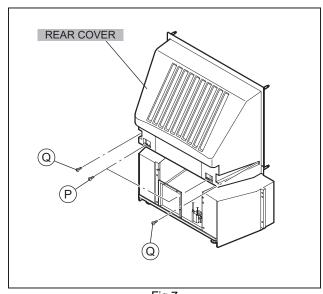


Fig.7

3.1.14 MAIN UNIT

- Take out the SPEAKER GRILLE.
- Disconnect the connector [BH], [R], [BG] on the FRONT CONTROL PWB.
- · Take out the REAR PANEL.
 - (1) Remove 4 screws [R] from front side.
 - (2) Remove 1 screw [S] and 3 screws [T] attaching the MAIN CHASSIS and BODY.
 - (3) Pull out the MAIN UNIT rear side.

NOTE:

- Except for confirmation of projection of images on the screen and audio output through the speakers, the removed MAIN UNIT is still workable in the same state as if it is still built in the TV set. Therefore, the MAIN UNIT can be removed, if necessary, for board diagnosis, electric testing, etc. apart from confirmation of screen images and audio output.
- When wire clamps are removed during work, use care to restore them precisely to their original positions.
 Performance can be affected if these are not returned to the original positions.
- Because of the large size, at least two persons are recommended for removal and reassemble.
- When carrying the MAIN UNIT, use care not to drop, shock or shake it.
- Do not stain or damage the lens of the PROJECTION LINIT
- Do not look through the PROJECTION UNIT.

3.1.14.1 CHECKING THE P.W. BOARD

When checking the MAIN PWB, POWER & DEF PWB, etc., raise the MAIN UNIT with the HV DIVIDER side down for the sake of convenience. You can checking the POWER & DEF PWB and CONVERGENCE OUT PWB.

3.1.15 AV TERMINAL BOARD

- Take out the REAR PANEL.
 - (1) Remove 8 screws [U].
 - (2) Remove 3 screws [V].
 - (3) Remove 2 screws [W].
 - (4) Pull out the POWER CORD CLAMP from AV TERMINAL BOARD left side.
 - (5) Remove the nut [X] attaching the ANTENNA TERMINAL.
 - (6) Take out the AV TERMINAL BOARD.

3.1.16 DIGITAL INPUT MODULE

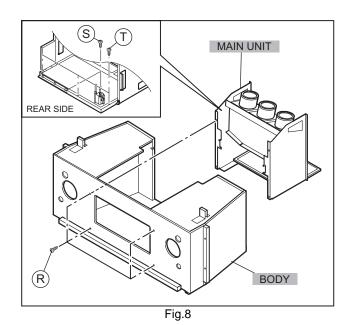
- · Take out the REAR PANEL.
- Take out the AV TERMINAL BOARD.
 - Remove 2 screws [Y] from rear side of the AV TERMINAL BOARD.
 - (2) Disconnect the connector [AU], [DC], [Q] and [SR] on the DIGITAL INPUT MODULE.
 - (3) Take out the DIGITAL INPUT MODULE.

NOTE:

• When removing the DIGITAL INPUT MODULE, refer to the "CAUTION AT DISASSEMBLY" section on page 13.

3.1.17 DD POWER PWB

- · Take out the REAR PANEL.
- Take out the AV TERMINAL BOARD.
 - (1) Remove 2 screws [Z] from rear side of the AV TERMINAL BOARD.
 - (2) Disconnect the connector [AE], [AC] and [AD] on the DD POWER PWB.
 - (3) Take out the DD POWER PWB.



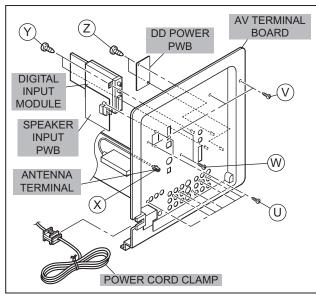


Fig.9

3.1.18 MI-COM & DIST MODULE PWB AND ATSC TUNER UNIT

- Take out the REAR PANEL.
- · Take out the AV JACK BOARD.
 - (1) Disconnect the connector [E], [Y] on the MI-COM & DIST MODULE PWB.
 - (2) Disconnect the connector [AD], [AE] on the ATSC TUNER UNIT.
 - (3) Remove 2 screws [a] attaching the MI-COM & DIST MODULE PWB and ATSC TUNER UNIT.
 - (4) Take out the MI-COM & DIST MODULE PWB and ATSC TUNER UNIT.
 - (5) Remove 7 screws [b] attaching the ATSC TUNER UNIT on the MI-COM & DIST MODULE PWB.
 - (6) Disconnect the connector [0005] and take out the ATSC TUNER UNIT.

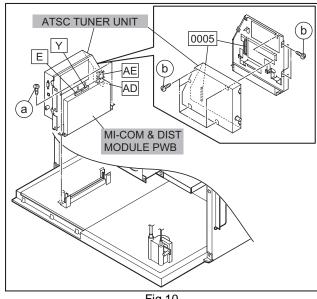


Fig.10

3.1.19 LINE FILTER PWB

- Take out the REAR PANEL.
- Take out the AV JACK BOARD.
 - (1) Disconnect the connector [B], [F] on the LINE FILTER
 - (2) Remove 3 screws [c] attaching the LINE FILTER BRACKET and earth wire.
 - (3) Remove 2 screws [d] attaching LINE FILTER PWB.
 - (4) Take out the LINE FILTER PWB.

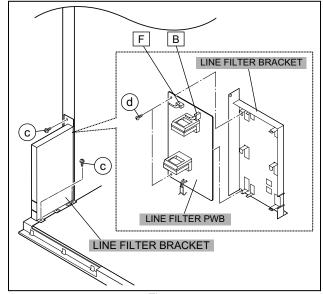


Fig.11

3.1.20 COOLING FAN

- · Take out the REAR PANEL.
 - (1) Remove 2 screws [e].
 - (2) Take out the COOLING FAN.

3.1.21 CONVERGENCE OUT PWB AND DIGITAL CONVERGENCE MODULE PWB

- Take out the REAR PANEL.
- Take out the AV TERMINAL BOARD.
 - (1) Remove 7 screws [f].
 - (2) Take out the CONVERGENCE OUT PWB and DIGITAL CONVERGENCE MODULE PWB.
 - (3) Remove 2 screws [g].
 - (4) Take out the DIGITAL CONVERGENCE MODULE PWB.

NOTE -

 If necessary, remove the anode wires, connectors, respectively.

3.1.22 MAIN CHASSIS

- · Take out the REAR PANEL.
- · Take out the AV TERMINAL BOARD.
- · Take out the LINE FILTER BRACKET.
 - (1) Remove 2 screws [h] both side of the MAIN CHASSIS.
 - (2) Remove 1 screw [i] attaching the earth wire.
 - (3) Remove 3 screws [T] attaching the MAIN CHASSIS and BODY. (See Fig. 8)
 - (4) Pull out the MAIN CHASSIS for back side.

NOTE:

 If necessary, remove the anode wires, connectors, respectively.

3.1.23 PROJECTION UNIT

- Take out the SPEAKER GRILLE.
- Take out the FRONT CONTROL BOX.
- · Take out the REAR PANEL.
- Take out the MAIN UNIT.
 - (1) Take out the CRT SOCKET PWB.
 - (2) Remove 4 screws [j] attaching the PROJECTION UNIT.
 - (3) Pull out the PROJECTION UNIT, upward.

NOTE:

- Refer to "PROJECTION UNIT REPLACEMENT" on page 13 when taking out and replacing the PROJECTION UNIT.
- When wire clamps are removed during work, use care to restore them precisely to their original positions.
 Performance can be affected if these are not returned to the original positions.

3.1.24 HV DIVIDER

- Take out the REAR PANEL.
 - (1) Remove 1 screw [k] attaching the HV DIVIDER.
 - (2) Take out the HV DIVIDER.

*Wires of the transformer (FBT) and CRT of each PROJECTION UNIT can be removed by turning the connector portions.

NOTE:

 If necessary, remove the anode wires, and replacing the HV DIVIDER, take care to correctly engage the [I] connector.

3.1.25 REMOCON SENSOR PWB

- · Take out the REAR PANEL.
 - (1) Remove 1 screw [m] attaching the REMOCON SENSOR PWB.
 - (2) Take out the REMOCON SENSOR PWB.

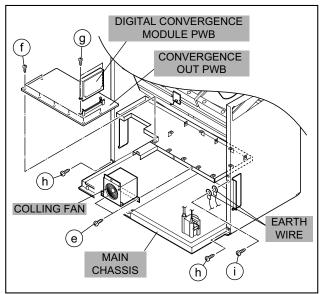


Fig.12

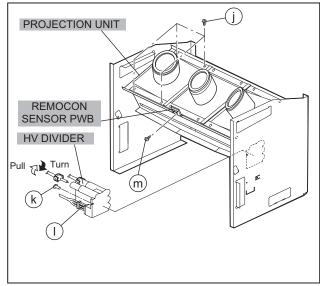


Fig.13

3.2 REPLACEMENT OF CHIP COMPONENT

3.2.1 CAUTIONS

- (1) Avoid heating for more than 3 seconds.
- (2) Do not rub the electrodes and the resist parts of the pattern.
- (3) When removing a chip part, melt the solder adequately.
- (4) Do not reuse a chip part after removing it.

3.2.2 SOLDERING IRON

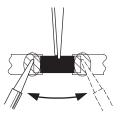
- (1) Use a high insulation soldering iron with a thin pointed end of it.
- (2) A 30w soldering iron is recommended for easily removing parts.

3.2.3 REPLACEMENT STEPS

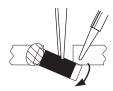
1. How to remove Chip parts

[Resistors, capacitors, etc.]

(1) As shown in the figure, push the part with tweezers and alternately melt the solder at each end.



(2) Shift with the tweezers and remove the chip part.

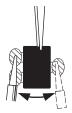


[Transistors, diodes, variable resistors, etc.]

(1) Apply extra solder to each lead.



(2) As shown in the figure, push the part with tweezers and alternately melt the solder at each lead. Shift and remove the chip part.



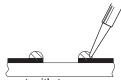
NOTE:

After removing the part, remove remaining solder from the pattern.

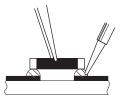
2. How to install Chip parts

[Resistors, capacitors, etc.]

(1) Apply solder to the pattern as indicated in the figure.

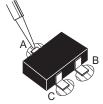


(2) Grasp the chip part with tweezers and place it on the solder. Then heat and melt the solder at both ends of the chip part.

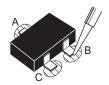


[Transistors, diodes, variable resistors, etc.]

- (1) Apply solder to the pattern as indicated in the figure.
- (2) Grasp the chip part with tweezers and place it on the solder.
- (3) First solder lead A as indicated in the figure.



(4) Then solder leads B and C.



3.3 MEMORY IC REPLACEMENT

3.3.1 MEMORY IC

This memory IC stores data for proper operation of the video and deflection circuits.

When replacing, be sure to use an IC containing this (initial value) data.

SERVICE MENU 1.PICTURE/SOUND 7.CONVER B 2.YC SEP 8.PP 3.WHITE BALANCE 9.IP 4.MEMORY SETUP 0.HDMI 5.RF AFC 6.CONVER A

Fig.1

3.3.2 MEMORY IC REPLACEMENT PROCEDURE

(1) Power off

Switch off the power and disconnect the power cord from the wall outlet.

- (2) Replace the memory IC Initial value must be entered into the new IC.
- (3) Power on Connect the power cord to the wall outlet and switch on the power.

(4) SERVICE MENU setting Before entering the SERVICE MENU, confirm that the setting of TV/CATV SW of the REMOTE CONTROL UNIT is at the "TV" side and the setting of VCR/DVD SW of the REMOTE CONTROL UNIT is at the "VCR" side. If the switches have not

- been properly set, you cannot enter the SERVICE MENU.

 a) Press [SLEEP TIMER] key and, while the indication of SLEEP TIMER 0 MIN is being displayed, press [DISPLAY] key and [VIDEO STATUS] key on the remote control unit (Fig.2) simultaneously.
 - b) The SERVICE MENU screen of Fig.1 is displayed.
 - c) Verify what to set in the SERVICE MENU, and set whatever is necessary (Fig.1).
 - Refer to the SERVICE ADJUSTMENT for setting.
- d) Press the [BACK] key twice to return normal screen.

(5) Receive channel setting

Refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the receive channels (Channels Preset) as described.

(6) User settings

Check the user setting items according to after page. Where these do not agree, refer to the OPERATING INSTRUCTIONS (USER'S GUIDE) and set the items as described.

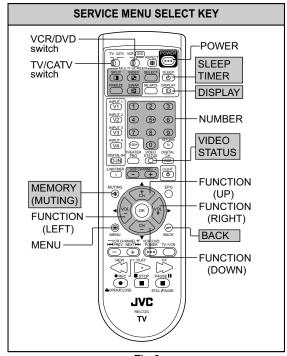


Fig.2

3.3.3 SERVICE ADJUSTMENT ITEM

Setting item	Item No.	Remark	Setting item	Item No.	Remark		
1.PICTURE/SOUND			7.CONVER B				
AUDIO	A01~A27		Convergence adjustment				
VIDEO	S01~S99		8.PP				
DEFLECTION	D01~D32		Multi-picture adjustment and	ADM001~ADM034			
FACTORY setting	F01~F70		setting	PPA001~PPA008	Do not adjust		
2.YC SEP	•			PPB001~PPB036	Do not adjust		
YC separation setting	YCM001~YCM185	Do not adjust		PPC001~PPC010	Do not adjust		
	YCS001~YCS114	Do not adjust		PPD001~PPD025	Do not adjust		
3.WHITE BALANCE	•		9.IP				
LOW LIGHT/HIGH LIGHT	BR, DRV R, DRV B		DIST process setting	IPA001~IPA120	Do not adjust		
adjustment	CUT R, CUT G, CUT B						
4.MEMORY SETUP		Do not adjust		IPB001~IPB079	Do not adjust		
5.RF AFC	•		7	IPC001~IPC044	Do not adjust		
AFC of TUNER setting	TUNER AFC, FINE	Do not adjust		IPD001~IPD026	Do not adjust		
6.CONVER A	•			IPE001~IPE015	Do not adjust		
Convergence adjustment	CPA01~CPA08	Do not adjust	0.HDMI	•	•		
	CCA01~CCA11	Do not adjust	Digital input setting	HDM001~HDM080	Do not adjust		
	CDA01~CDA09	Do not adjust	1 -	RHD001~RHD170	Do not adjust		
	CBA01~CBA94	Do not adjust	1				

3.3.4 SHIPPING FACTORY SETTING

VIDEO STATUS MEMORY

(NTSC / 480p)

Item	Setting value						
iteiii	TINT	COLOR	PICTURE	BRIGHT	DETAIL		
STANDARD	0	0	0	0	0		
THEATER	0	0	0	0	0		
DYNAMIC	0	0	+10	0	+5		
GAME	0	0	-10	0	0		

(HD)

Item	Setting value							
item	TINT	COLOR	PICTURE	BRIGHT	DETAIL			
STANDARD	0	0	0	0	0			
THEATER	0	0	0	0	0			
DYNAMIC	0	0	+5	0	+10			
GAME	0	0	-10	0	0			

CHANNEL SETTING (CHANNEL SUMMARY)

Band	CH di	isplay	Setting	Band	CH d	isplay	Setting
VHF LOW	2 3 4		USED	SUPER	N	27	NOT USED
			NOT USED	1	0	28	USED
			USED	1	Р	29	NOT USED
	į	5	USED	1	Q	30	NOT USED
	(6	USED	1	R	31	USED
VHF HIGH		7	USED	1	S	32	USED
		8	NOT USED	1	T	33	NOT USED
	(9	USED	1	U	34	NOT USED
	1	0	NOT USED	1	V	35	NOT USED
	1	1	USED	1	W	36	USED
	1	2	NOT USED	SUBMID	A-7	93	NOT USED
	1	3	USED	1	A-6	94	NOT USED
UHF	1	4	USED	1	A-5	95	NOT USED
	36		USED	1	A-4	96	USED
	41		NOT USED	1	A-3	97	USED
	46		NOT USED	1	A-2	98	USED
	63		USED	1	A-1	99	NOT USED
	6	9	USED	1	A-8	01	NOT USED
MID	Α	14	USED	HYPER	W+11	47	USED
	В	15	USED	1	W+12	48	USED
	С	16	USED	1	W+17	53	USED
	D	17	USED	1	W+23	59	USED
	E	18	USED	ULTRA	W+29	65	NOT USED
	F	19	NOT USED		W+51		NOT USED
	G	20	NOT USED	1	W+78		NOT USED
	Н	21	USED		W+84		NOT USED
	Į	22	NOT USED				
SUPER	J	23	NOT USED				
	K	24	USED				
	L	25	NOT USED				
	М	26	NOT USED]			

SHIPPING FACTORY SETTING (USER SETTING)

Setting item	Setting value	Setting item	Setting value
POWER CHANNEL VOLUME	Off CABLE-02 10	TINT / COLOR / PICTURE/ BRIGHT / DETAIL	Refer to setting of Video status memory at shipping factory setting
INPUT	TV	COLOR TEMPERATURE DIG. NOISE CLEAR VSM (Velocity Scan Modulation)	LOW OFF ON
DISPLAY NATURAL CINEMA ASPECT VIDEO STATUS	OFF AUTO REGULAR DYNAMIC	BASS / TREBLE / BALANCE MTS	Center STEREO
	A.H.S Off BBE ON	ON / OFF TIMER LANGUAGE NOISE MUTING CLOSED CAPTION FRONT PANEL LOCK	NO ENG ON OFF (CC1 / T1) OFF
SPLIT SOURCE	LEFT SIDE : CA 02 RIGHT SIDE : CA 04	AUTO SHUT OFF DIGITAL-IN	OFF SIZE 1
VERTICAL POSITION CENTER CH INPUT XDS ID CONVERGENCE POWER INDICATOR	Center OFF ON AUTO HIGH	CHANNEL SUMMARY V-CHIP AUTO DEMO	Refer to Last memory (CH. summary) OFF OFF

SECTION 4 ADJUSTMENT

4.1 ADJUSTMENT PREPARATION

- (1) You can make the necessary adjustments for this unit with either the Remote Control Unit or with the adjustment tools and parts as given below.
- (2) Adjustment with t he Remote Control Unit is made on the basis of the initial setting values, however, the new setting values which set the screen to its optimum condition may differ from the initial settings.
- (3) Make sure that AC power is turned on correctly.
- (4) Turn on the power for set and test equipment before use, and start the adjustment procedures after waiting at least 30 minutes.
- (5) Unless otherwise specified, prepare the most suitable reception or input signal for adjustment.
- (6) Never touch any adjustment setting value which are not specified in the list for this adjustment.
- (7) Presetting before adjustment Unless otherwise specified in the adjustment instructions, preset the following functions with the remote control unit:

SETTING POSITION

Setting item	Setting position
VIDEO STATUS	STANDARD
TINT / COLOR / PICTURE / BRIGHT / DETAIL	00(Center)
COLOR TEMPERATURE	LOW
DIGI. NOISE CLEAR	OFF
VSM	OFF
NATURAL CINEMA	Auto
BASS / TREBLE / BALANCE	00(Center)
A.H.S	OFF
BBE	OFF
ASPECT	FULL
VERTICAL POSITION	Center
ON/OFF TIMER	OFF
AUTO SHUTOFF	OFF

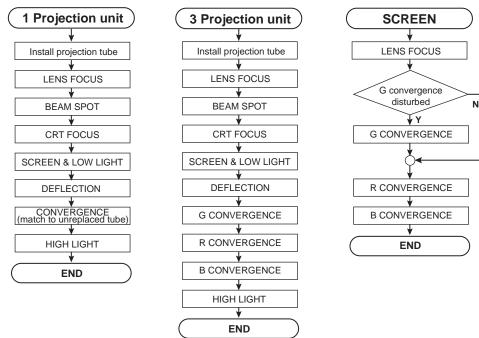
4.2 MEASURING INSTRUMENT AND FIXTURES

- (1) DC voltmeter (or digital voltmeter)
- (2) Oscilloscope
- (3) Signal generator (Pattern generator) [NTSC / 480i / 480p / 720p / 1080i / DIGITAL / ATSC]
- (4) TV audio multiplex signal generator
- (5) Remote control unit

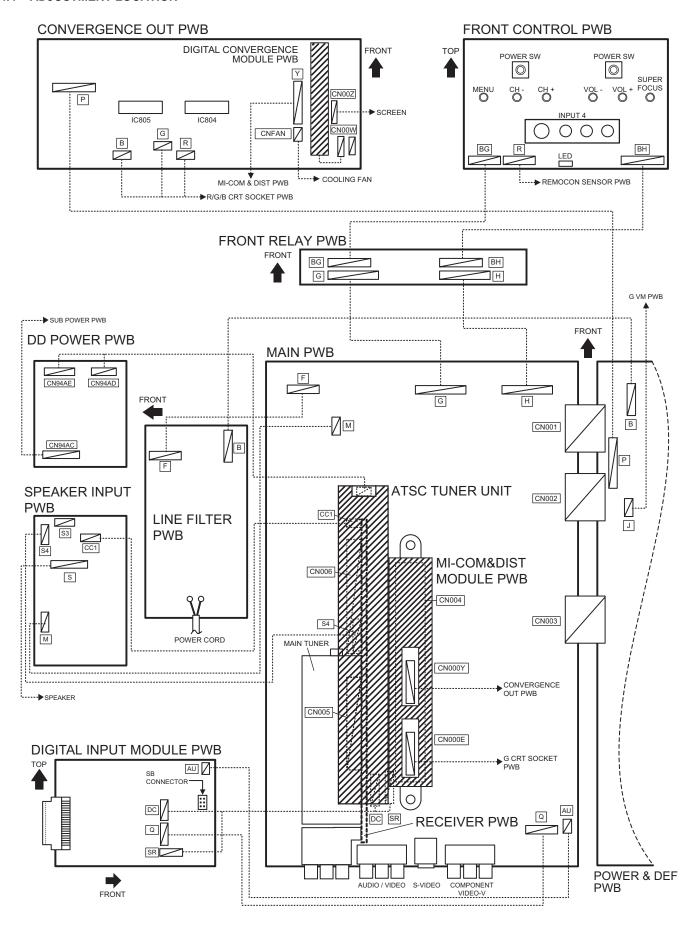
4.3 ADJUSTMENT FLOWCHART

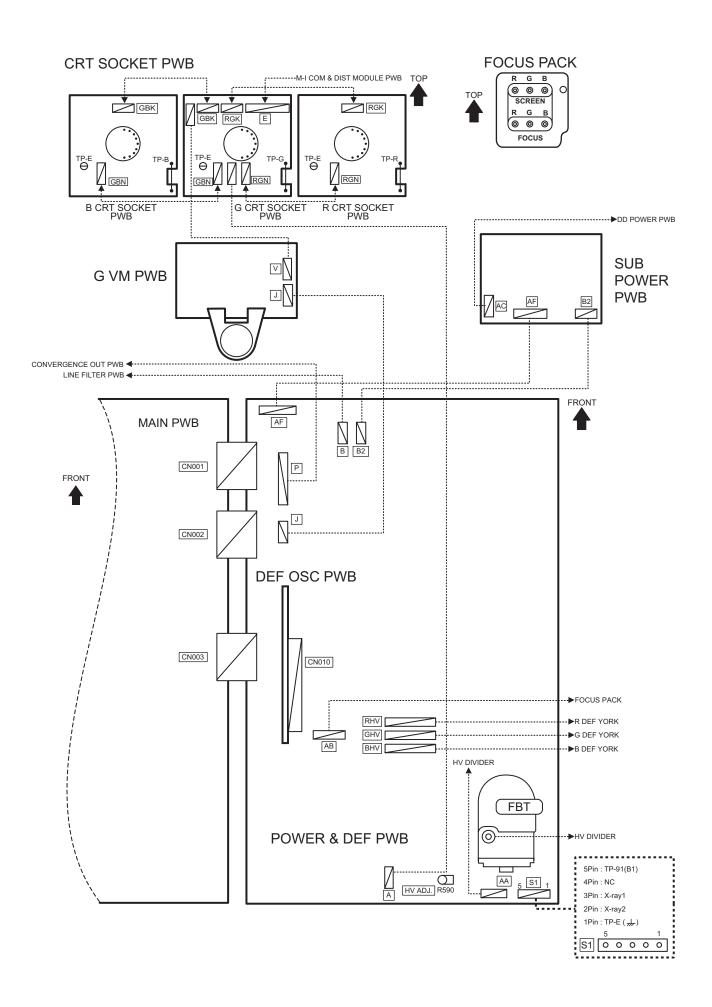
WHEN REPLACING SCREEN AND PROJECTION UNIT

• Contains only the main adjustments. Also confirm other adjustments as required.

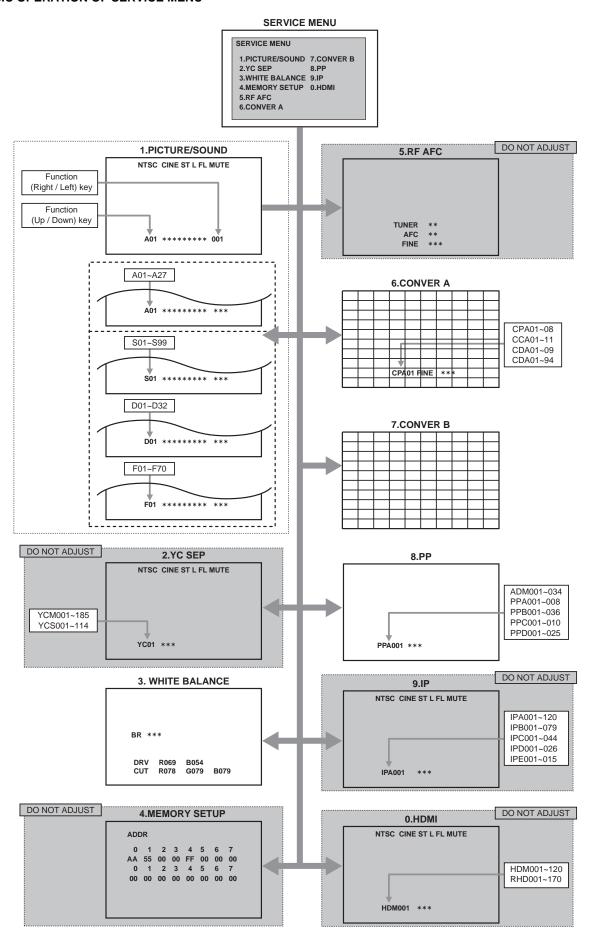


4.4 ADJUSTMENT LOCATION





4.5 BASIC OPERATION OF SERVICE MENU



4.5.1 TOOL OF SERVICE MENU OPERATION

Operate the SERVICE MENU with the REMOTE CONTROL UNIT.

4.5.2 SERVICE MENU ITEMS

In general, basic setting (adjustments) items or verifications are performed in the SERVICE MENU.

1.PICTURE / SOUND	This sets the setting values of the VIDEO, AUDIO and DEFLECTION circuits.
T.I ICTORE / SOUND	This sets the setting values of the VIDEO, AODIO and DET EECTION circuits.
2.YC SEP	This is used when the YC separation circuit is adjusted. [Do not adjust]
3.WHITE BALANCE	This sets the setting values of the WHITE BALANCE.
4.MEMORY SETUP	This sets the setting values of the MEMORY ADDRESS. [Do not adjust]
5.RF AFC	This is used when the IF VCO is adjusted. [Do not adjust]
6.CONVER A	This is used when the CONVERGENCE is adjusted.
7.CONVER B	This is used when the CONVERGENCE is adjusted.
8.PP	This sets the setting value of the output of MULTI-PICTURE circuit.
9.IP	This sets the setting value of the DIST circuit. [Do not adjust]
0.HDMI	This sets the setting value of the DIGITAL INPUT MODULE circuit. [Do not adjust].

4.5.3 BASIC OPERATIONS OF THE SERVICE MENU

(1) How to enter the SERVICE MENU

Press [SLEEP TIMER] key and, while the indication of "SLEEP TIMER 0 MIN." is being displayed, press [DISPLAY] key and [VIDEO STATUS] key on the remote control unit simultaneously to enter the SERVICE MENU screen as shown in the Fig.1.

(2) Releasing SERVICE MENU

After returning to the SERVICE MENU upon completion of the setting work, press the BACK key again.

4.5.4 DESCRIPTION OF STATUS DISPLAY

The status display on the upper part of the SERVICE MENU screen is common (to all models).

(1) SIGNAL SYSTEM

NTSC: Composite, S-video (Y / C), RF, No signal.

DVD : 480i (component)

ED : 480p HD : 1080i 720 : 720p

HED1 : DIGITAL (DVI) 480p SIZE1 HED2 : DIGITAL (DVI) 480p SIZE2 HHD : DIGITAL (DVI) 1080i

H750 : DIGITAL (DVI) 720p

ADVD : ATSC 480i AED : ATSC 480p AHD : ATSC 1080i A750 : ATSC 720p

(2) ASPECT / MULTI

ONE SCREEN

FULL: FULL

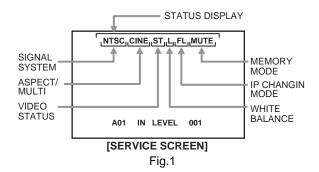
PANO : PANORAMA
CINE : CINEMA
REGU : REGULAR

MULTI SCREEN

M1 : One screen (for adjustment)

M2-1 : SPLIT (4 : 3) M2-2 : SPLIT (16 : 9)

M4 : POP M12 : INDEX



(3) VIDEO STATUS

ST : STANDARD

DA : DYNAMIC

TH : THEATER

GA : GAME

(4) WHITE BALANCE

H : HIGH L : LOW

(5) IP CHANGING MODE

FL: FRAME L1: LINE

23 : COMPULSORY NATURAL CINEMA IN

(6) MEMORY MODE

MUTE : Press [MUTING] key

DIR : Change data then memory at the same time.

4.5.5 DESCRIPTION OF TEST MODE

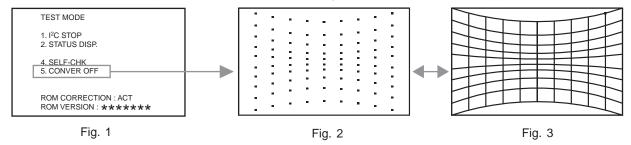
(1) How to enter the TEST MODE

Press [SLEEP TIMER] key and set "SLEEP TIMER 30 MIN." is being displayed, Press [DISPLAY] key and [VIDEO STATUS] key on the remote control unit simultaneously to enter the TEST MODE MENU screen as shown in the Fig.1.

- (2) Press [5] key and enter the 5.CONVER OFF.
- (3) Press [INPUT] key and select the cross-hatch pattern.

NOTE:

For this adjustment, it is necessary to use a remote control unit (e.g. RM-C322G) with [INPUT] key.



4.5.6 SERVICE MENU SETTING

1. PICTURE/SOUND

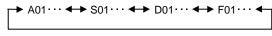
AUDIO, VIDEO, DEFLECTION data adjustment.

1. SETTING ITEM No.

A : AUDIO S : SIGNAL D : DEFLECTION

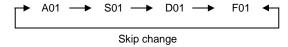
F : FACTORY SETTING

• Press [CH+] / [CH-] key



Item No. is up/down

Press [SLEEP TIMER] key



2. SETTING ITEM NAME

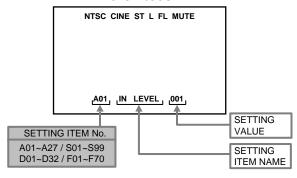
Describe setting item name

3. SETTING VALUE

Set the setting value.

- Press [VOL+] / [VOL-] key Set the setting value.
- Press [MUTING] key Memorize the data.

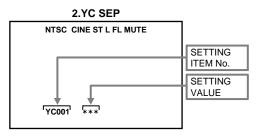
1.PICTURE/SOUND



2. YC SEP

YC separation circuit setting

[Do not adjust]



3. WHITE BALANCE

Adjustment of LOW LIGHT / HIGH LIGHT

- 1. SELECT ITEM
- Press [CH+] / [CH-] key
 2. SETTING VALUE
 BRIGHT
- Press [VOL+] / [VOL-] DRIVE

[2] key : DRIVE R is up

[5] key: DRIVE R is down [3] key: DRIVE B is up

[6] key : DRIVE B is down

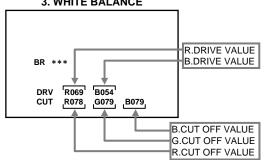
CUTOFF

[7] key: CUTOFF G is up [100] key: CUTOFF G is down [8] key: CUTOFF R is up

[0] key: CUTOFF R is down [9] key: CUTOFF B is up

[TV] key : CUTOFF B is down

3. WHITE BALANCE

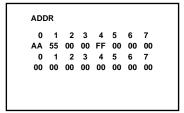


4. MEMORY SETUP

Main memory data edition

[Do not adjust]

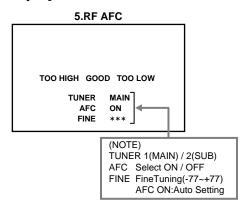




5. RF AFC

Setting the IF VCO adjustment

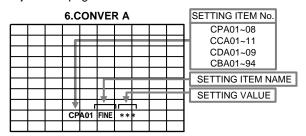
[Do not adjust]



6. CONVER A

Setting the CONVERGENCE PHASE adjustment

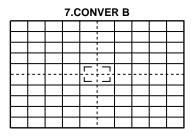
 Setting for 6.CONVER A is described in the CONVERGENCE adjustment page.



7. CONVER B

Setting the CONVERGENCE POINT (fine)

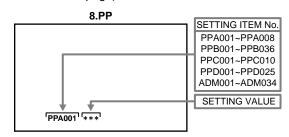
 Setting for 7.CONVER B is described in the CONVERGENCE adjustment page.



8. PP

MULTI-PICTURE circuit data setting

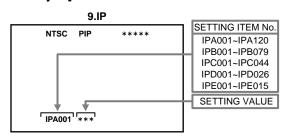
 Do not adjust (except ADM012~ADM014 : Refer to VIDEO ADJUSTMENT page)



9. IP

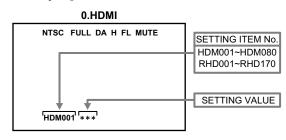
DIST circuit data setting

[Do not adjust]



0. HDMI

DIGITAL INPUT MODULE circuit data setting [Do not adjust]



4.6 INITIAL SETTING VALUE OF SERVICE MENU

- (1) Adjustment of the SERVICE MENU is made on the basis of the initial setting values; however, the new setting values which set the screen in its optimum condition may differ from the initial setting.
- (2) Do not change the initial setting values of the setting items NOT LISTED IN ADJUSTMENT.
- (3) "---" is not adjusted. Setting value is not displayed.

CAUTION:

Never change the initial setting value any adjustments **except** for those that are designated in the adjustment procedures. In case where you have made undesignated adjustments by mistake, never press the [MUTING] key on the remote control unit. Whenever you had not pressed the [MUTING] key, you would be able to recover the initial value by switching the [POWER] key.

4.6.1 [1. PICTURE / SOUND]

AUDIO SYSTEM

Item No.	Item name	Variable range	Initial setting value
A01	IN LEVEL	000~015	009
A02	LOW SEP	000~063	030
A03	HI SEP	000~063	046
A04	BBE BASS	-128~+127	+002
A05	BBE TRE	-128~+127	000
A06	SURROUND	000 / 001	001
A07	BASS OFS	-128~+127	000
A08	TRE OFS	-128~+127	000
A09	AHS MVE	-128~+127	000
A10	AHS MSC	-128~+127	000
A11	(Not display)	000 / 001	000
A12	(Not display)	000 / 001	000
A13	(Not display)	000 / 001	000
A14	(Not display)	000 / 001	000
A15	(Not display)	000 / 001	000
A16	(Not display)	000 / 001	000
A17	(Not display)	000 / 001	000
A18	(Not display)	000 / 001	000
A19	(Not display)	000 / 001	000
A20	(Not display)	000 / 001	000
A21	(Not display)	000 / 001	000
A22	(Not display)	000 / 001	000
A23	(Not display)	000 / 001	000
A24	(Not display)	000 / 001	000
A25	(Not display)	000 / 001	000
A26	(Not display)	000 / 001	000
A27	(Not display)	000 / 001	000

DEFLECTION SYSTEM

Item No.	Item name	Variable range	SINGLE SCREEN (FULL)	SPRIT / POP / MULTI	
D01	V. SIZE	000~127	070	070	
D02	EW	000~063	039	039	
D03	H. SIZE	000~127	030	030	
D04	V. SCORE	000~063	040	040	
D05	V. LINE	000~031	010	010	
D06	V. CENT	000~127	017	017	
D07	EW.TRAP	000~127	031	031	
D08	BOT.CORN	000~015	005	005	
D09	TOP.CORN	000~015	006	006	
D10	V. EHT	000~007	000	000	
D11	H. EHT	000~007	003	003	
D12	(Not display) 000~007 006		006		
D13	(Not display)	000~015	000	000	
D14	H. CENTER	000~255	097	097	
D15	H. FREQ	000~255	126	126	
D16	(Not display)	000~127	084	084	
D17	(Not display)	000~003	000	000	
D18	(Not display)	000 / 001	000	000	
D19	(Not display)	000 / 001	000	000	
D20	(Not display)	000 / 001	000	000	
D21	(Not display)	000 / 001	000	000	
D22	(Not display)	000 / 001	000	000	
D23	(Not display)	000 / 001	000	000	
D24	(Not display)	000 / 001	000	000	
D25	(Not display)	000 / 001	000	000	
D26	(Not display)	000 / 001	000	000	
D27	(Not display)	000 / 001	000	000	
D28	(Not display)	000 / 001	000	000	
D29	(Not display)	000 / 001	000	000	
D30	(Not display)	000 / 001	000	000	
D31	(Not display)	000 / 001	000	000	
D32	(Not display)	000 / 001	000	000	

VIDEO SYSTEM

(NTSC / 480i / 480p)

Item	Item name	Variable range	NTSC		48	0i	480p	
No.	No. Rem name Variable		STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S01	COLOR	000~255	096	081	089	080	079	072
S02	TINT	000~255	060	052	064	058	059	060

(720p / 1080i / DIGITAL)

			720p / 1080i		DIGITAL				
No. Item name	Variable range	STANDARD	THEATER	480p		720p / 1080i			
			STANDARD	INCATER	STANDARD	THEATER	STANDARD	THEATER	
S01	COLOR	000~255	081	076					
S02	TINT	000~255	062	056					

(NTSC / 480i / 480p)

Item No.	Item name	Variable range		SC	480i / 480p		
			STANDARD	THEATER	STANDARD	THEATER	
S03	BRIGHT	000~255	129	125	128	124	
S04	CONTRAST	000~127	046	038	056	047	

(720p / 1080i / DIGITAL)

Item	Item name	Variable range	720p	/ 1080i	DIGITAL		
No.	item name	variable range	STANDARD	STANDARD THEATER		THEATER	
S03	BRIGHT	000~255	127	126			
S04	CONTRAST	000~127	056	056 044			

(NTSC / 480i)

Item	Item name	Variable range	NT	SC	480i		
No.	item name		STANDARD	THEATER	STANDARD	THEATER	
S05	0 MTX SW	000~003	000	000	000	000	
S06	INPUT SW	000~003	001	001	001	001	
S07	B-Y	000~063	016	031	007	018	
S08	R-Y	000~015	007	000	007	000	
S09	G-YMATRI	000~003	001	003	001	003	

(480p/720p/1080i)

1 L	100077120077												
Item	Item name	Variable range -	48	30p	720p / 1080i								
No.	item name		STANDARD	THEATER	STANDARD	THEATER							
S05	0 MTX SW	000~003	000	000	000	000							
S06	INPUT SW	000~003	001	001	000	000							
S07	B-Y	000~063	013	021	018	022							
S08	R-Y	000~015	007	002	004	003							
S09	G-YMATRI	000~003	001	003	002	002							

(NTSC / 480i)

	Item name	Variable range	NTSC				480i					
No.			STANDARD		THEATER		STANDARD		THEATER			
			HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW		
S10	DRIVE R	000~255		068				061				
S11	(Not display)	-128 ~ +127	+003		+006	+011	+006		+005	+008		
S12	DRIVE B	000~255		068				067				
S13	(Not display)	-128 ~ +127	+007		-011	-026	+005		-012	-018		

(480p / 720p / 1080i)

	Item name	Variable range	480p				720p / 1080i			
No.			STANDARD		THEATER		STANDARD		THEATER	
			HIGH	LOW	HIGH	LOW	HIGH	LOW	HIGH	LOW
S10	DRIVE R	000~255						066		
S11	(Not display)	-128 ~ +127	+004	-001	+001	+002	+006		+006	+010
S12	DRIVE B	000~255						069		
S13	(Not display)	-128 ~ +127	+004	-005	-010	-018	+005		-008	-019

(DVI)

		Variable range	DIGITAL					
Item No.	Item name		STAN	DARD	THEATER			
110.			HIGH	LOW	HIGH	LOW		
S10	DRIVE R	000~255						
S11	(Not display)	-128 ~ +127	+006	000	+006	+010		
S12	DRIVE B	B 000~255						
S13	(Not display)	-128 ~ +127	+005	000	-008	-019		

(NTSC / 480i)

(14 1 50	N13C / 4801)								
Item	Item name	Variable range	NT	SC	48	30i			
No.	item name		STANDARD	THEATER	STANDARD	THEATER			
S14	CUTOF R	000~255	085		085				
S15	(Not display)	-128 ~ +127		-002		001			
S16	CUTOF G	000~255	085		085				
S17	(Not display)	-128 ~ +127		000		000			
S18	CUTOF B	000~255	085		085				
S19	(Not display)	-128 ~ +127		-002		001			
S20	CUTOF SW R	000~003	001		001				
S21	CUTOF SW G	000~003	001		001				
S22	CUTOF SW B	000~003	001		001				

(480p / 720p / 1080i / DVI)

Item	Item name	Variable range	480p / 72	0p / 1080i	DIG	ITAL
No.	item name	variable range	STANDARD	THEATER	STANDARD	THEATER
S14	CUTOF R	000~255	085			
S15	(Not display)	-128 ~ +127		-004		000
S16	CUTOF G	000~255	085			
S17	(Not display)	-128 ~ +127		000		000
S18	CUTOF B	000~255	085			
S19	(Not display)	-128 ~ +127		-003		000
S20	CUTOF SW R	000~003	001			
S21	CUTOF SW G	000~003	001			
S22	CUTOF SW B	000~003	001			

(NTSC / 480i / OTHERS SIGNAL)

Item	Item name	Variable range	NTSC		480i		OTHERS SIGNAL	
No.			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S23	DC CTL	000~255	255	255	255	255	255	255

Item No.	Item name	Variable range	Initial setting value
S24	RGBLIMT	000~015	000

(NTSC / 480i / 480p / 720p / 1080i)

1	(111007 +0017 +00p7 120p7 10001)							
Item No.	Item name	Variable range	NTSC	480i	480p / 720p / 1080i			
S25	BL STRT	000~015	015	015	015			
S26	BL GAIN	000~015	800	008	008			
S27	YGM LVL	000~015	000	000	000			
S28	YGM GAIN	000~015	015	015	015			
S29	YWD START	000~015	002	000	000			
S30	YWD GAIN	000~015	005	002	000			

(ATSC)

	Item name	Variable range	ATSC					
Item No.			480i		480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S31	COL OFST	-128~+127	+002	000	+003	+009	000	000
S32	TNT OFST	-128~+127	+005	+005	+006	+006	+002	000

(DVI)

				DIGITAL				
Item No.	Item name	Variable range	480i / 480p		720p / 1080i			
			STANDARD	THEATER	STANDARD	THEATER		
S31	COL OFST	-128~+127	000	000	000	000		
S32	TNT OFST	-128~+127	000	000	000	000		

(SPRIT/FREEZE/ATSC)

	Item name	Variable range	SPRIT / FREEZE		ATSC			
Item No.					480i / 480p		720p / 1080i	
			STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S33	BRT OFST	-128~+127	-001	000	+003	+003	+003	+003
S34	CNT OFST	-128~+127	-007	000	-007	-006	-007	-005

(DVI)

			DIGITAL				
Item No.	Item name	Variable range	480i / 480p		720p / 1080i		
			STANDARD	THEATER	STANDARD	THEATER	
S33	BRT OFST	-128~+127	000	000	000	000	
S34	CNT OFST	-128~+127	000	000	000	000	

Item No.	Item name	Variable range	STANDARD	THEATER	
S35	DCTRN SW	000 / 001	000	000	
S36	BL OFF	000 / 001	000	001	
S37	YGM OFF	000 / 001	000	001	
S38	ABL OFF	000 / 001	000	000	
S39	ACL OFF	000 / 001	000	000	

Item No.	Item name	Variable range	Initial setting value
S40	BLCNT LK	000 / 001	000
S41	YGCNT LK	000 / 001	000
S42	DCTRN PL	000 / 001	000
S43	ABL GAIN	000~015	015
S44	ABL STRT	000~015	015
S45	ACL GAIN	000~015	015
S46	ACL STRT	000~015	000

(SPLIT / REGULER / THEATER / OTHERS)

Ī	Item	Item name	Variable range	MULTI-SCREEN	ASPECT	VIDEO STATUS	OTHERS
l	No.	item name	variable range	SPLIT	REGULAR	THEATER	OTHERS
I	S47	ACL EERG	000~255	255	255	255	255

Item No.	Item name	Variable range	Initial setting value
S48	CHRM GM	000~255	115

Item No.	Item name	Variable range	Initial setting value
S49	OSDR DC	000~127	064
S50	OSDB DC	000~127	064
S51	BLK OFF	000 / 001	000

Item No.	Item name	Variable range	VIDEO STATUS	OTHERS	
		variable range	THEATER		
S52	CNT UNDR	-128~+127	-021	-025	
S53	CNT UPPR	-128~+127	+013	+013	
S54	BRT UNDR	-128~+127	-020	-023	

Item No.	Item name	Variable range	Initial setting value
S55	EETH BRT	-128~+127	000
S56	EETH CNT	000~255	000
S57	BREE CNT	000~031	000
S58	DKEE CNT	000~031	000
S59	DREE BRT	000~127	000
S60	BREE ACL	000~255	000
S61	DKEE ACL	000~255	000
S62	VMOFF DE	-128~+127	+005
S63	VM LOW	-128~+127	-020
S64	VM MID	-128~+127	-010
S65	VM HIGH	-128~+127	+010
S66	VM L-	-128~+127	-007
S67	VM LH	-128~+127	-003
S68	VM MH	-128~+127	000
S69	VM M+	-128~+127	+003
S70	(Not display)	000 / 001	000
S71	(Not display)	000 / 001	000
S72	(Not display)	000 / 001	000
S73	(Not display)	000 / 001	000
S74	(Not display)	000 / 001	000
S75	(Not display)	000 / 001	000
S76	(Not display)	000 / 001	000
S78	(Not display)	000 / 001	000
S79	(Not display)	000 / 001	000
S80	(Not display)	000 / 001	000
S81	(Not display)	000 / 001	000
S82	(Not display)	000 / 001	000
S83	(Not display)	000 / 001	000
S84	(Not display)	000 / 001	000
S85	(Not display)	000 / 001	000
S86	(Not display)	000 / 001	000
S87	(Not display)	000 / 001	000

Item No.	Item name	Variable range	Initial setting value
S88	(Not display)	000 / 001	000
S89	(Not display)	000 / 001	000
S90	(Not display)	000 / 001	000
S91	(Not display)	000 / 001	000
S92	(Not display)	000 / 001	000
S93	(Not display)	000 / 001	000
S94	(Not display)	000 / 001	000
S95	(Not display)	000 / 001	000
S96	(Not display)	000 / 001	000
S97	(Not display)	000 / 001	000
S98	(Not display)	000 / 001	000
S99	(Not display)	000 / 001	000

OTHERS

Item No.	Item name	Variable range	Initial setting value
F01	(Not display)	000~255	080
F02	(Not display)	000~255	000
F03	(Not display)	000~255	150
F04	(Not display)	000~255	150
F05	CATVMAX	000 / 001	001
F06	(Not display)	000~255	001
F07	(Not display)	000~255	136
F08	(Not display)	000~255	007

Item	Itam nama	Variable range	ASPECT		
No.	Item name	Variable range	CINEMA	OTHERS	
F09	AUTO SCR 1	000~015	001	002	
F10	AUTO SCR 2	000~015	002	004	
F11	AUTO SCR 3	000~015	003	004	
F12	AUTO SCR 4	000~015	004	005	
F13	AUTO SCR 5	000~015	005	006	
F14	AUTO SCR 6	000~015	006	007	
F15	AUTO SCR 7	000~015	007	007	

Item No.	Item name	Variable range	Initial setting value
F16	(Not display)	000~127	070
F17	(Not display)	000 / 001	000
F18	FIX DATA	000 / 001	000
F19	(Not display)	000 / 001	000
F20	(Not display)	000~255	005
F21	(Not display)	000~255	002
F22	(Not display)	000 / 001	000
F23	(Not display)	000~255	000
F24	(Not display)	000~255	141
F25	(Not display)	000~255	006
F26	(Not display)	000~255	040
F27	(Not display)	000~255	040
F28	(Not display)	000 /001	000

Item No.	Item name	Variable range	Initial setting value
F29	(Not display)	000 / 001	000
F30	(Not display)	000 / 001	000
F31	(Not display)	000 / 001	000
F32	(Not display)	000 / 001	000
F33	(Not display)	000 / 001	000
F34	(Not display)	000 / 001	000
F35	(Not display)	000 / 001	000
F36	(Not display)	000 / 001	000
F37	(Not display)	000 / 001	000
F38	(Not display)	000 / 001	000
F39	(Not display)	000 / 001	000
F40	(Not display)	000 / 001	000

Item No.	Item name	Variable range	NTSC	480i	480p	720p	1080i
F41	(Not display)	000~003	002	002	002	002	002
F42	(Not display)	000 / 001	000	000	000	000	000
F43	(Not display)	000~063	039	037	025	024	024

Item No.	Item name	Variable range	Initial setting value
F44	(Not display)	000 / 001	000
F45	(Not display)	000~007	
F46	OUT LV.	000~255	090
F47	LMT BTM	000~255	
F48	LMT TOP	000~255	
F49	(Not display)	000 / 001	
F50	(Not display)	000 / 001	001
F51	(Not display)	000~007	003
F52	(Not display)	000~063	053
F53	(Not display)	-128~+127	000
F54	(Not display)	000~255	015
F55	(Not display)	000~255	040
F56	(Not display)	000~255	207
F57	(Not display)	000~255	128

14			
Item No.	Item name	Variable range	Initial setting value
F58	(Not display)	000~255	047
F59	(Not display)	000 / 001	001
F60	ATT GAIN	000 / 001	000
F61	(Not display)	000 / 001	001
F62	(Not display)	000 / 001	000
F63	(Not display)	-128~+127	+010
F64	(Not display)	-128~+127	000
F65	(Not display)	-128~+127	-010
F66	(Not display)	000~007	004
F67	(Not display)	000~003	003
F68	(Not display)	000~255	126
F69	(Not display)	000 / 001	000
F70	(Not display)	000 / 001	000

4.6.2 [2.YC SEP] (All fixed)

NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI : SINGLE
VIDEO STATUS : STANDARD

COLOR TEMPERATURE : LOW

Item No.	Item name	Variable	Initial setting
item No.	item name	range	value
YCM001	(Not display)	000 / 001	000
YCM002	(Not display)	000 / 001	000
YCM003	(Not display)	000 / 001	000
YCM004	(Not display)	000~003	001
YCM005	(Not display)	000~255	239
YCM006	(Not display)	000~003	001
YCM007	(Not display)	000~255	239
YCM008	(Not display)	000 / 001	000
YCM009	(Not display)	000~003	000
YCM010	(Not display)	000 / 001	000
YCM011	(Not display)	000 / 001	000
YCM012	(Not display)	000 / 001	000
YCM013	(Not display)	000 / 001	000
YCM014	(Not display)	000~003	000
YCM015	(Not display)	000 / 001	000
YCM016	(Not display)	000~003	001
YCM017	(Not display)	000 / 001	001
YCM018	(Not display)	000~003	000
YCM019	(Not display)	000 / 001	000
YCM020	(Not display)	000 / 001	000
YCM021	(Not display)	000~003	002
YCM022	(Not display)	000~007	004
YCM023	(Not display)	000 / 001	001
YCM024	(Not display)	000 / 001	000
YCM025	(Not display)	000~015	005
YCM026	(Not display)	000~015	003
YCM027	(Not display)	000~003	000
YCM028	(Not display)	000~007	003
YCM029	(Not display)	000~007	002
YCM030	(Not display)	000~003	003
YCM031	(Not display)	000 / 001	000
YCM032	(Not display)	000~003	003
YCM033	(Not display)	000 / 001	001
YCM034	(Not display)	000 / 001	000
YCM035	(Not display)	000~255	096
YCM036	(Not display)	000 / 001	001
YCM037	(Not display)	000~003	001
YCM038	(Not display)	000~127	062
YCM039	(Not display)	000~127	073

Item No.	Item name	Variable range	Initial setting value
YCM040	(Not display)	000~003	002
YCM041	(Not display)	000~063	016
YCM042	(Not display)	000 / 001	000
YCM043	(Not display)	000 / 001	000
YCM044	(Not display)	000~255	237
YCM045	(Not display)	000 / 001	000
YCM046	(Not display)	000~255	182
YCM047	(Not display)	000 / 001	001
YCM048	(Not display)	000 / 001	001
YCM049	(Not display)	000 / 001	001
YCM050	(Not display)	000 / 001	001
YCM051	(Not display)	000 / 001	001
YCM052	(Not display)	000 / 001	000
YCM053	(Not display)	000 / 001	001
YCM054	(Not display)	000~003	003
YCM055	(Not display)	000~003	003
YCM056	(Not display)	000~003	000
YCM057	(Not display)	000 / 001	000
YCM058	(Not display)	000 / 001	001
YCM059	(Not display)	000 / 001	001
YCM060	(Not display)	000 / 001	000
YCM061	(Not display)	000 / 001	001
YCM062	(Not display)	000~015	001
YCM063	(Not display)	000~015	004
YCM064	(Not display)	000~003	000
YCM065	(Not display)	000~063	060
YCM066	(Not display)	000~063	040
YCM067	(Not display)	000~063	025
YCM068	(Not display)	000~063	012
YCM069	(Not display)	000~063	036
YCM070	(Not display)	000~063	031
YCM071	(Not display)	000~255	031
YCM072	(Not display)	000 / 001	001
YCM073 YCM074	(Not display)	000 / 001	001 024
YCM074 YCM075	(Not display) (Not display)	000~063 000 / 001	000
YCM076	(Not display)	000 / 001	000
YCM076 YCM077	(Not display)	0007001	010
YCM078	(Not display)	000~063	010
YCM079	(Not display)	000~003	000
YCM080	(Not display)	000~255	000
YCM081	(Not display)	000~255	000
YCM082	(Not display)	000~255	000
YCM083	(Not display)	000 / 001	001
YCM084	(Not display)	000~063	012
			<u>i </u>

Item No.	Item name	Variable range	Initial setting value
YCM085	(Not display)	000 / 001	000
YCM086	(Not display)	000 / 001	000
YCM087	(Not display)	000~063	028
YCM088	(Not display)	000 / 001	001
YCM089	(Not display)	000~031	000
YCM090	(Not display)	000~003	000
YCM091	(Not display)	000~015	000
YCM092	(Not display)	000~015	000
YCM093	(Not display)	000~015	002
YCM094	(Not display)	000~063	000
YCM095	(Not display)	000~255	032
YCM096	(Not display)	000 / 001	001
YCM097	(Not display)	000~063	063
YCM098	(Not display)	000~015	800
YCM099	(Not display)	000~015	005
YCM100	(Not display)	000~015	800
YCM101	(Not display)	000~015	005
YCM102	(Not display)	000~015	000
YCM103	(Not display)	000~015	002
YCM104	(Not display)	000~015	800
YCM105	(Not display)	000~015	006
YCM106	(Not display)	000~255	010
YCM107	(Not display)	000~255	032
YCM108	(Not display)	000~255	031
YCM109	(Not display)	000~255	064
YCM110	(Not display)	000 / 001	000
YCM111	(Not display)	000 / 001	001
YCM112	(Not display)	000 / 001	001
YCM113	(Not display)	000 / 001	001
YCM114	(Not display)	000 / 001	000
YCM115	(Not display)	000 / 001	001
YCM116	(Not display)	000 / 001	000
YCM117	(Not display)	000 / 001	000
YCM118	(Not display)	000 / 001	001
YCM119	(Not display)	000 / 001	000
YCM120	(Not display)	000 / 001	000
YCM121	(Not display)	000~003	003
YCM122	(Not display)	000 / 001	000
YCM123	(Not display)	000~255	000
YCM124	(Not display)	000 / 001	000
YCM125	(Not display)	000~255	002
YCM126	(Not display)	000 / 001	000
YCM127	(Not display)	000 / 001	001
YCM128	(Not display)	000 / 001	001
YCM129	(Not display)	000 / 001	001

Item No.	Item name	Variable range	Initial setting value
YCM130	(Not display)	000~003	001
YCM131	(Not display)	000~255	050
YCM132	(Not display)	000~255	131
YCM133	(Not display)	000~255	055
YCM134	(Not display)	000~007	001
YCM135	(Not display)	000~255	136
YCM136	(Not display)	000 / 001	000
YCM137	(Not display)	000 / 001	001
YCM138	(Not display)	000~007	003
YCM139	(Not display)	000~255	141
YCM140	(Not display)	000~007	000
YCM141	(Not display)	000~255	014
YCM142	(Not display)	000 / 001	000
YCM143	(Not display)	000~007	005
YCM144	(Not display)	000~255	128
YCM145	(Not display)	000 / 001	000
YCM146	(Not display)	000 / 001	001
YCM147	(Not display)	000 / 001	001
YCM148	(Not display)	000 / 001	001
YCM149	(Not display)	000 / 001	000
YCM150	(Not display)	000 / 001	000
YCM151	(Not display)	000~255	136
YCM152	(Not display)	000 / 001	001
YCM153	(Not display)	000 / 001	001
YCM154	(Not display)	000 / 001	001
YCM155	(Not display)	000~003	000
YCM156	(Not display)	000~015	015
YCM157	(Not display)	000~015	004
YCM158	(Not display)	000 / 001	001
YCM159 YCM160	(Not display) (Not display)	000~127 000 / 001	004
YCM161	(Not display)	0007001	000
YCM162	(Not display)	000~031	000
YCM163	(Not display)	0007001	003
YCM164	(Not display)	000~013	002
YCM165	(Not display)	000~031	016
YCM166	(Not display)	000~255	235
YCM167	(Not display)	000~003	000
YCM168	(Not display)	000~063	000
YCM169	(Not display)	000~015	003
YCM170	(Not display)	000~015	003
YCM171	(Not display)	000~007	000
YCM172	(Not display)	000~255	096
YCM173	(Not display)	000~007	003

Item No.	Item name	Variable range	Initial setting value
YCM175	(Not display)	000 / 001	000
YCM176	(Not display)	000 / 001	000
YCM177	(Not display)	000~255	022
YCM178	(Not display)	000 / 001	001
YCM179	(Not display)	000 / 001	000
YCM180	(Not display)	000~007	003
YCM181	(Not display)	000~003	001
YCM182	(Not display)	000~003	001
YCM183	(Not display)	000~003	001
YCM184	(Not display)	000~003	001
YCM185	(Not display)	000~255	000

Item No.	Item name	Variable range	Initial setting value
YCS001	(Not display)	000 / 001	000
YCS002	(Not display)	000 / 001	000
YCS003	(Not display)	000 / 001	000
YCS004	(Not display)	000~003	001
YCS005	(Not display)	000~255	239
YCS006	(Not display)	000~003	001
YCS007	(Not display)	000~255	239
YCS008	(Not display)	000 / 001	000
YCS009	(Not display)	000~003	000
YCS010	(Not display)	000 / 001	000
YCS011	(Not display)	000 / 001	000
YCS012	(Not display)	000 / 001	000
YCS013	(Not display)	000 / 001	000
YCS014	(Not display)	000~003	000
YCS015	(Not display)	000 / 001	000
YCS016	(Not display)	000~003	001
YCS017	(Not display)	000 / 001	001
YCS018	(Not display)	000~003	000
YCS019	(Not display)	000~001	000
YCS020	(Not display)	000~001	000
YCS021	(Not display)	000~003	002
YCS022	(Not display)	000~007	002
YCS023	(Not display)	000 / 001	001
YCS024	(Not display)	000 / 001	000
YCS025	(Not display)	000~015	005
YCS026	(Not display)	000~015	003
YCS027	(Not display)	000~003	000
YCS028	(Not display)	000~007	004
YCS029	(Not display)	000~007	006
YCS030	(Not display)	000~003	003
YCS031	(Not display)	000 / 001	000
YCS032	(Not display)	000~003	003

Item No.	Item name	Variable range	Initial setting value
YCS033	(Not display)	000 / 001	001
YCS034	(Not display)	000 / 001	000
YCS035	(Not display)	000~255	096
YCS036	(Not display)	000 / 001	001
YCS037	(Not display)	000~003	001
YCS038	(Not display)	000~127	062
YCS039	(Not display)	000~127	073
YCS040	(Not display)	000~003	002
YCS041	(Not display)	000~063	016
YCS042	(Not display)	000 / 001	000
YCS043	(Not display)	000 / 001	000
YCS044	(Not display)	000~255	199
YCS045	(Not display)	000 / 001	000
YCS046	(Not display)	000~255	155
YCS047	(Not display)	000 / 001	001
YCS048	(Not display)	000~031	000
YCS049	(Not display)	000~003	000
YCS050	(Not display)	000~015	000
YCS051	(Not display)	000~015	008
YCS052	(Not display)	000~015	001
YCS053	(Not display)	000~063	015
YCS054	(Not display)	000~255	020
YCS055	(Not display)	000 / 001	000
YCS056	(Not display)	000~063	025
YCS057	(Not display)	000~015	800
YCS058	(Not display)	000~015	005
YCS059	(Not display)	000~015	008
YCS060	(Not display)	000~015	005
YCS061	(Not display)	000~015	000
YCS062	(Not display)	000~015	002
YCS063	(Not display)	000~015	008
YCS064	(Not display)	000~015	006
YCS065	(Not display)	000~255	010
YCS066	(Not display)	000~255	032
YCS067	(Not display)	000~255	031
YCS068 YCS069	(Not display)	000~255 000 / 001	089
YCS069 YCS070	(Not display) (Not display)	000 / 001	000
YCS070 YCS071	(Not display)	000 / 001	001
YCS071	(Not display)	000 / 001	001
YCS073	(Not display)	000 / 001	000
YCS074	(Not display)	000 / 001	000
YCS075	(Not display)	000 / 001	000
YCS076	(Not display)	000 / 001	000
YCS077	(Not display)	000 / 001	000
. 55077	(5507 501	000

Item No.	Item name	Variable range	Initial setting value	
YCS078	(Not display)	000 / 001	000	
YCS079	(Not display)	000 / 001	000	
YCS080	(Not display)	000~003	003	
YCS081	(Not display)	000 / 001	000	
YCS082	(Not display)	000~255	000	
YCS083	(Not display)	000~255	000	
YCS084	(Not display)	000~007	000	
YCS085	(Not display)	000~255	014	
YCS086	(Not display)	000 / 001	000	
YCS087	(Not display)	000 / 001	001	
YCS088	(Not display)	000 / 001	000	
YCS089	(Not display)	000 / 001	000	
YCS090	(Not display)	000~255	136	
YCS091	(Not display)	000 / 001	001	
YCS092	(Not display)	000 / 001	001	
YCS093	(Not display)	000 / 001	001	
YCS094	(Not display)	000~003	000	
YCS095	(Not display)	000~015	015	
YCS096	(Not display)	000~015	002	
YCS097	(Not display)	000 / 001	001	
YCS098	(Not display)	000~127	007	
YCS099	(Not display)	000~031	000	
YCS100	(Not display)	000 / 001	000	
YCS101	(Not display)	000~015	003	
YCS102	(Not display)	000~007	002	
YCS103	(Not display)	000~031	016	
YCS104	(Not display)	000~255	235	
YCS105	(Not display)	000~003	000	
YCS106	(Not display)	000~063	000	
YCS107	(Not display)	000~015	003	
YCS108	(Not display)	000~015	003	
YCS109	(Not display)	000 / 001	000	
YCS110	(Not display)	000~003	003 001	
YCS111	(Not display) 000~003		001	
YCS112	(Not display)	ot display) 000~003		
YCS113	(Not display)	000~003	001	
YCS114	(Not display)	000~255	000	

4.6.3 [3.WHITE BALANCE]

NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

Item No.	Item name	Variable range	Initial setting value
BR	(Not display)	000~238	133
DRV R	(Not display)	000~255	083
DRV B	(Not display)	000~255	042
CUT R	(Not display)	000~255	235
CUT G	(Not display)	000~255	192
CUT B	(Not display)	000~255	248

4.6.4 [6.CONVER A]

Item No.	Item name	Variable range	Initial setting value
CPA01	FINE OFF	0 / 1	0
CPA02	OSD H	0~4095	135
CPA03	OSD V	0~255	021
CPA04	FINE H	0~4095	1110
CPA05	FINE H	0~4095	72
CPA06	CAU V	0~4095	0
CPA07	CAU H1	0~255	0
CPA08	CAU H2	-32768~32767	0

Item No.	Item name	Variable	Initial	setting	value
item No.	item name	range	GREEN	RED	BLUE
CCA01	C H CENT	-512~511	0	-120	160
CCA02	C H SIZE	-512~511	0	0	-005
CCA03	C H LIN	-512~511	-045	200	-190
CCA04	C H SKEW	-512~511	0	0	0
CCA05	C EW PIN	-512~511	0	0	0
CCA06	C H BOW	-512~511	0	0	0
CCA07	C V CENT	-512~511	0	0	0
CCA08	C V SKEW	-512~511	0	0	0
CCA09	C V SIZE	-512~511	-140	-120	-120
CCA10	C V KEY	-512~511	020	015	-025
CCA11	C TB PIN	-512~511	230	170	210

Item No.	Item name	Variable range	Initial setting value
CDA01	DAC1 DC	-512~511	0
CDA02	DAC1 H1	-512~511	0
CDA03	DAC1 H2	-512~511	0
CDA04	DAC1 V2	-512~511	0
CDA05	DAC2 H2	-512~511	0
CDA06	DAC2 V1	-512~511	0
CDA07	DAC2 V2	-512~511	-435
CDA08	DAC2 V1H1	-512~511	0
CDA09	DAC2 V2H1	-512~511	0

Item No.	Item name	Variable range	Initial setting value
CBA01	LINE COMP	0~3	1
CBA02	INTER NUM	0~15	11
CBA03	INTERLACE	0/1	0
CBA04	ADD RATIO	0~3	0
CBA05	DAC NUM	0/1	1
CBA06	CKOUT FRE	0~7	0
CBA07	ODD LEVEL	0/1	1
CBA08	V1 CNTUP	0~4095	349
CBA09	RETRACE	0/1	0
CBA10	RVCLMP ON	0/1	1
CBA11	RVCLMP WD	0~31	0
CBA12	RVCLMP ST	0~31	15
CBA13	GVCLMP ON	0 / 1	1
CBA14	GVCLMP WD	0~31	1
CBA15	GVCLMP ST	0~31	15
CBA16	BVCLMP ON	0 / 1	1
CBA17	BVCLMP WD	0~31	0
CBA18	BVCLMP ST	0~31	15
CBA19	RHCLMP ON	0/1	1
CBA20	RHCLMP WD	0~31	0
CBA21	RHCLMP ST	0~31	15
CBA22	GHCLMP ON	0/1	1
CBA23	GHCLMP WD	0~31	1
CBA24	GHCLMP ST	0~31	15
CBA25	BHCLMP ON	0/1	1
CBA26	BHCLMP WD	0~31	1
CBA27	BHCLMP ST	0~31	15
CBA28	PATTERN H	0~3	1
CBA29	PATTERN W	0~3	0
CBA30	CURSPACE	0~3	0
CBA31	ODEV POSI	0~2	0
CBA32	DAC P	0	0
CBA33	DAC 2P	0	0
CBA34	HBLKOUT	0 / 1	1

Item No.	Item name	Variable range	Initial setting value
CBA35	HBLKOP	0~4095	1388
CBA36	HBLKOW	0~4095	314
CBA37	PMW P	0~4095	0
CBA38	PMW W	0~4095	256
CBA39	PMW2P	0~4095	1105
CBA40	PWM2W	0~4095	762
CBA41	VBLK01P	0~1023	0
CBA42	VBLK01W	0~1023	1
CBA43	VBLK02P	0~1023	60
CBA44	VBLK02W	0~1023	330
CBA45	VBLK03P	0~1023	0
CBA46	VBLK03W	0~1023	0
CBA47	VBLK04P	0~1023	0
CBA48	VBLK04W	0~1023	0
CBA49	HATCH COL	0~7	2
CBA50	BORDE COL	0~7	2
CBA51	CROSS COL	0~7	0
CBA52	BLOCK COL	0~7	0
CBA53	AF1POSV	0~2047	10
CBA54	AF1POSH	0~2047	703
CBA55	AF1VSIZE	0~255	200
CBA56	AF1HSIZE	0~255	70
CBA57	AF2POSV	0~2047	718
CBA58	AF2POSH	0~2047	128
CBA59	AF2VSIZE	0~255	127
CBA60	AF2HSIZE	0~255	150
CBA61	AF3POSV	0~2047	1270
CBA62	AF3POSH	0~2047	705
CBA63	AF3VSIZE	0~255	200
CBA64	AF3HSIZE	0~255	70
CBA65	AF4POSV	0~2047	718
CBA66	AF4POSH	0~2047	1130
CBA67	AF4VSIZE	0~255	127
CBA68	AF4HSIZE	0~255	150
CBA69	AF5POSV	0~2047	720
CBA70	AF5POSH	0~2047	684
CBA71	AF5VSIZE	0~255	4
CBA72	AF5HSIZE	0~255	40
CBA73	AF6POSV	0~2047	680
CBA74	AF6POSH	0~2047	704
CBA75	AF6VSIZE	0~255	80
CBA76	AF6HSIZE	0~255	2
CBA77	AF7POSV	0~2047	0
CBA78	AF7POSH	0~2047	0
CBA79	AF7VSIZE	0~255	0

Item No.	Item name	Variable range	Initial setting value
CBA80	AF7HSIZE	0~255	0
CBA81	AF8POSV	0~2047	0
CBA82	AF8POSH	0~2047	0
CBA83	AF8VSIZE	0~255	0
CBA84	AF8HSIZE	0~255	0
CBA85	BL1POSH	0~2047	0
CBA86	BL1POSH	0~4095	220
CBA87	BL2POSV	0~2047	0
CBA88	BL2POSH	0~4095	1188
CBA89	XLPOSV	0~2047	720
CBA90	XLPOSH	0~2047	704
CBA91	XLLENV	0~2047	285
CBA92	XLLENH	0~4095	321
CBA93	FINE LIMT	-32768~32767	50
CBA94	DC LIMIT	-32768~32767	50

4.6.5 [8.PP]

NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI : SINGLE
VIDEO STATUS : STANDARD

COLOR TEMPERATURE: LOW

Item No.	Item name	Variable range	Initial setting value
ADM001	(Not display)	000~0FF	0D6
ADM002	(Not display)	000~00F	007
ADM003	(Not display)	000~003	001
ADM004	(Not display)	000~007	005
ADM005	(Not display)	000~01F	016
ADM006	(Not display)	000~0FF	036
ADM007	(Not display)	000~0FF	08A
ADM008	(Not display)	000~0FF	020
ADM009	(Not display)	000~0FF	0FF
ADM010	(Not display)	000~0FF	0FF
ADM011	(Not display)	000~0FF	0FF
ADM012	(Not display)	000~07F	03D
ADM013	(Not display)	000~07F	02C
ADM014	(Not display)	000~07F	03E
ADM015	(Not display)	000 / 001	001
ADM016	(Not display)	000 / 001	001
ADM017	(Not display)	000 / 001	000
ADM018	(Not display)	000 / 001	001
ADM019	(Not display)	000 / 001	000
ADM020	(Not display)	000 / 001	000
ADM021	(Not display)	000 / 001	001

Item No.	Item name	Variable range	Initial setting value
ADM022	(Not display)	000 / 001	000
ADM023	(Not display)	000 / 001	000
ADM024	(Not display)	000 / 001	001
ADM025	(Not display)	000 / 001	000
ADM026	(Not display)	000 / 001	001
ADM027	(Not display)	000 / 001	001
ADM028	(Not display)	000 / 001	001
ADM029	(Not display)	000 / 001	001
ADM030	(Not display)	000~01F	003
ADM031	(Not display)	000 / 001	001
ADM032	(Not display)	000 / 001	000
ADM033	(Not display)	000 / 001	001
ADM034	(Not display)	000~00F	032

Item No.	Item name	Variable range	Initial setting value
PPA001	(Not display)	000~255	000
PPA002	(Not display)	000~255	000
PPA003	(Not display)	000~255	085
PPA004	(Not display)	000~255	000
PPA005	(Not display)	000~255	000
PPA006	(Not display)	000~255	001
PPA007	(Not display)	000~255	085
PPA008	(Not display)	000~255	035

Item No.	Item name	Variable range	Initial setting value
PPB001	(Not display)	000~01F	0E0
PPB002	(Not display)	000~0FF	000
PPB003	(Not display)	000~0FF	000
PPB004	(Not display)	000~01F	0E0
PPB005	(Not display)	000~0FF	000
PPB006	(Not display)	000~031	0C0
PPB007	(Not display)	000~01F	0E0
PPB008	(Not display)	000~0FF	000
PPB009	(Not display)	000~0FF	006
PPB010	(Not display)	000~01F	224
PPB011	(Not display)	000~0FF	000
PPB012	(Not display)	000~031	025
PPB013	(Not display)	000~255	224
PPB014	(Not display)	000~255	075
PPB015	(Not display)	000~031	000
PPB016	(Not display)	000~255	224
PPB017	(Not display)	000~255	075
PPB018	(Not display)	000~031	019
PPB019	(Not display)	000~255	224

Item No.	Item name	Variable range	Initial setting value
PPB020	(Not display)	000~255	075
PPB021	(Not display)	000~031	006
PPB022	(Not display)	000~255	224
PPB023	(Not display)	000~255	075
PPB024	(Not display)	000~031	025
PPB025	(Not display)	000~255	224
PPB026	(Not display)	000~255	150
PPB027	(Not display)	000~031	000
PPB028	(Not display)	000~255	224
PPB029	(Not display)	000~255	150
PPB030	(Not display)	000~031	019
PPB031	(Not display)	000~255	224
PPB032	(Not display)	000~255	150
PPB033	(Not display)	000~031	006
PPB034	(Not display)	000~255	224
PPB035	(Not display)	000~255	150
PPB036	(Not display)	000~031	025

Item No.	Item name	Variable range	Initial setting value
PPC001	(Not display)	000~0FF	000
PPC002	(Not display)	000~00F	0B0
PPC003	(Not display)	000~0FF	002
PPC004	(Not display)	000 / 001	000
PPC005	(Not display)	000 / 001	000
PPC006	(Not display)	000 / 001	000
PPC007	(Not display)	000 / 001	000
PPC008	(Not display)	000 / 001	000
PPC009	(Not display)	001~0FF	000
PPC010	(Not display)	001~03F	000

Item No.	Item name	Variable range	Initial setting value
PPD001	(Not display)	000~0FF	008
PPD002	(Not display)	000~0FF	063
PPD003	(Not display)	000~0FF	063
PPD004	(Not display)	000~0FF	0CB
PPD005	(Not display)	000~0FF	0C0
PPD006	(Not display)	000~0FF	045
PPD007	(Not display)	000~0FF	041
PPD008	(Not display)	000~0FF	035
PPD009	(Not display)	000~0FF	030
PPD010	(Not display)	000~0FF	000
PPD011	(Not display)	000~0FF	024
PPD012	(Not display)	000~0FF	001
PPD013	(Not display)	000~0FF	039

Item No.	Item name	Variable range	Initial setting value
PPD014	(Not display)	000~0FF	000
PPD015	(Not display)	000~0FF	096
PPD016	(Not display)	000~0FF	001
PPD017	(Not display)	000~0FF	086
PPD018	(Not display)	000~0FF	000
PPD019	(Not display)	000~0FF	024
PPD020	(Not display)	000~0FF	001
PPD021	(Not display)	000~0FF	050
PPD022	(Not display)	000~0FF	000
PPD023	(Not display)	000~0FF	0AA
PPD024	(Not display)	000~0FF	001
PPD025	(Not display)	000~0FF	072

4.6.6 [9.IP] (All fixed)

NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI : SINGLE
VIDEO STATUS : STANDARD
COLOR TEMPERATURE : LOW

			1
Item No.	Item name	Variable range	Initial setting value
IPA001	(Not display)	000 / 001	001
IPA002	(Not display)	000~03F	028
IPA003	(Not display)	000~03F	023
IPA004	(Not display)	000~03F	028
IPA005	(Not display)	000~003	000
IPA006	(Not display)	000~003	000
IPA007	(Not display)	000~00F	800
IPA008	(Not display)	000~03F	000
IPA009	(Not display)	000~03F	00A
IPA010	(Not display)	000~03F	022
IPA011	(Not display)	000~03F	01D
IPA012	(Not display)	000~03F	037
IPA013	(Not display)	000~003	000
IPA014	(Not display)	000~003	001
IPA015	(Not display)	000~00F	007
IPA016	(Not display)	000~03F	000
IPA017	(Not display)	000 / 001	001
IPA018	(Not display)	000~03F	012
IPA019	(Not display)	000 / 001	001
IPA020	(Not display)	000 / 001	001
IPA021	(Not display)	000~03F	01F
IPA022	(Not display)	000~003	000
IPA023	(Not display)	000~03F	800
IPA024	(Not display)	000 / 001	001

Item No.	Item name	Variable range	Initial setting value
IPA025	(Not display)	000 / 001	001
IPA026	(Not display)	000~03F	01F
IPA027	(Not display)	000~003	000
IPA028	(Not display)	000~03F	800
IPA029	(Not display)	000~03F	02B
IPA030	(Not display)	000~00F	005
IPA031	(Not display)	000~007	001
IPA032	(Not display)	000~03F	010
IPA033	(Not display)	000 / 001	001
IPA034	(Not display)	000~03F	039
IPA035	(Not display)	000 / 001	001
IPA036	(Not display)	000~03F	00E
IPA037	(Not display)	000~03F	02E
IPA038	(Not display)	000~03F	01E
IPA039	(Not display)	000~003	002
IPA040	(Not display)	000~003	003
IPA041	(Not display)	000~00F	800
IPA042	(Not display)	000~03F	020
IPA043	(Not display)	000~03F	020
IPA044	(Not display)	000~03F	006
IPA045	(Not display)	000~03F	00E
IPA046	(Not display)	000~03F	01E
IPA047	(Not display)	000~003	002
IPA048	(Not display)	000~003	003
IPA049	(Not display)	000~00F	800
IPA050	(Not display)	000~03F	020
IPA051	(Not display)	000 / 001	000
IPA052	(Not display)	000~03F	020
IPA053	(Not display)	000 / 001	001
IPA054	(Not display)	000 / 001	001
IPA055	(Not display)	000~03F	020
IPA056	(Not display)	000~003	002
IPA057	(Not display)	000~03F	020
IPA058	(Not display)	000 / 001	001
IPA059	(Not display)	000 / 001	001
IPA060	(Not display)	000~03F	020
IPA061	(Not display)	000~003	002
IPA062	(Not display)	000~03F	020
IPA063	(Not display)	000~03F	020
IPA064	(Not display)	000~00F	008
IPA065	(Not display)	000~007	001
IPA066	(Not display)	000~03F	020
IPA067	(Not display)	000 / 001	001
IPA068	(Not display)	000~03F	020
IPA069	(Not display)	000~003	000

Item No.	Item name	Variable	Initial setting value
IPA070	(Not display)	range 000~0FF	000
IPA070	(Not display)	000~0FF	000
IPA071	(Not display)	000~001 000~0FF	072
IPA073	(Not display)	000~011	000
IPA074	(Not display)	000 / 001	000
IPA075	(Not display)	0007001 000~0FF	017
IPA076	(Not display)	000~011	000
IPA077	(Not display)	000 / 001	000
IPA078	(Not display)	000 / 001	000
IPA079	(Not display)	000 / 001	000
IPA080	(Not display)	000 / 001	000
IPA081	(Not display)	000 / 001	000
IPA082	(Not display)	000 / 001	000
IPA083	(Not display)	000 / 001	000
IPA084	(Not display)	000 / 001	000
IPA085	(Not display)	000 / 001	000
IPA086	(Not display)	000 / 001	000
IPA087	(Not display)	000 / 001	000
IPA088	(Not display)	000 / 001	000
IPA089	(Not display)	000 / 001	000
IPA090	(Not display)	000 / 001	000
IPA091	(Not display)	000~00F	000
IPA092	(Not display)	000~0FF	000
IPA093	(Not display)	000~00F	00F
IPA094	(Not display)	000~0FF	0FF
IPA095	(Not display)	000~00F	000
IPA096	(Not display)	000~0FF	000
IPA097	(Not display)	000~00F	00F
IPA098	(Not display)	000~0FF	0FF
IPA099	(Not display)	000~00F	00F
IPA100	(Not display)	000~0FF	0FF
IPA101	(Not display)	000~00F	000
IPA102	(Not display)	000~0FF	00F
IPA103	(Not display)	000~00F	00F
IPA104	(Not display)	000~0FF	0FF
IPA105	(Not display)	000~00F	000
IPA106	(Not display)	000~0FF	000
IPA107	(Not display)	000~00F	000
IPA108	(Not display)	000~0FF	080
IPA109 IPA110	(Not display) (Not display)	000~00F 000~0FF	000
IPATTO	(Not display)	000~0FF	040 005
IPA111	(Not display)	000~00F	040
IPA113	(Not display)	000~01T	000
IPA114	(Not display)	000~001 000~0FF	0C0
11 /A 1 1 1 1	(1101 display)	000~01 I	000

Item No.	Item name	Variable range	Initial setting value
IPA115	(Not display)	000~00F	003
IPA116	(Not display)	000~0FF	092
IPA117	(Not display)	000 / 001	000
IPA118	(Not display)	000 / 001	000
IPA119	(Not display)	000 / 001	000
IPA120	(Not display)	000 / 001	000

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Item No.	Item name	Variable	Initial setting
IDD004	(Not display)	range	value
IPB001	(Not display)	000~0FF	001
IPB002	(Not display)	000~0FF	02D
IPB003	(Not display)	000~00F	000
IPB004	(Not display)	000~0FF	0F0
IPB005	(Not display)	000~00F	002
IPB006	(Not display)	000~0FF	080
IPB007	(Not display)	000~00F	002
IPB008	(Not display)	000~0FF	080
IPB009	(Not display)	000~00F	001
IPB010	(Not display)	000~0FF	080
IPB011	(Not display)	000~00F	001
IPB012	(Not display)	000~0FF	000
IPB013	(Not display)	000~00F	000
IPB014	(Not display)	000~0FF	080
IPB015	(Not display)	000~00F	000
IPB016	(Not display)	000~0FF	00C
IPB017	(Not display)	000~00F	000
IPB018	(Not display)	000~0FF	02D
IPB019	(Not display)	000~00F	000
IPB020	(Not display)	000~0FF	021
IPB021	(Not display)	000~00F	000
IPB022	(Not display)	000~0FF	010
IPB023	(Not display)	000~00F	002
IPB024	(Not display)	000~0FF	0DD
IPB025	(Not display)	000~00F	003
IPB026	(Not display)	000~0FF	0B4
IPB027	(Not display)	000~00F	005
IPB028	(Not display)	000~0FF	069
IPB029	(Not display)	000~00F	000
IPB030	(Not display)	000~0FF	040
IPB031	(Not display)	000~00F	003
IPB032	(Not display)	000~0FF	0D6
IPB033	(Not display)	000~00F	004
IPB034	(Not display)	000~0FF	0A0
IPB035	(Not display)	000~00F	002
IPB036	(Not display)	000~0FF	000
IPB037	(Not display)	000 / 001	000

Item No.	Item name	Variable range	Initial setting value
IPB038	(Not display)	000~007	000
IPB039	(Not display)	000~00F	000
IPB040	(Not display)	000~00F	003
IPB041	(Not display)	000~00F	006
IPB042	(Not display)	000~0FF	000
IPB043	(Not display)	000~00F	000
IPB044	(Not display)	000~0FF	000
IPB045	(Not display)	000~00F	000
IPB046	(Not display)	000~0FF	000
IPB047	(Not display)	000~00F	000
IPB048	(Not display)	000~0FF	000
IPB049	(Not display)	000~00F	000
IPB050	(Not display)	000~0FF	0D6
IPB051	(Not display)	000~00F	000
IPB052	(Not display)	000~0FF	000
IPB053	(Not display)	000~00F	000
IPB054	(Not display)	000~0FF	000
IPB055	(Not display)	000~00F	000
IPB056	(Not display)	000~0FF	0F4
IPB057	(Not display)	000~00F	006
IPB058	(Not display)	000~0FF	040
IPB059	(Not display)	000~007	000
IPB060	(Not display)	000~003	000
IPB061	(Not display)	000~003	000
IPB062	(Not display)	000 / 001	000
IPB063	(Not display)	000~0FF	040
IPB064	(Not display)	000~0FF	080
IPB065	(Not display)	000~0FF	080
IPB066	(Not display)	000 / 001	000
IPB067	(Not display)	000~00F	000
IPB068	(Not display)	000~00F	000
IPB069	(Not display)	000~00F	000
IPB070	(Not display)	000~00F	00F
IPB071	(Not display)	000~0FF	000
IPB072	(Not display)	000~00F	000
IPB073	(Not display)	000~0FF	000
IPB074	(Not display)	000 / 001	000
IPB075	(Not display)	000 / 001	000
IPB076	(Not display)	000 / 001	000
IPB077	(Not display)	000~00F	009
IPB078	(Not display)	000 / 001	001
IPB079	(Not display)	000~0FF	050

Item No.	Item name	Variable range	Initial setting value
IPC001	(Not display)	000~003	002
IPC002	(Not display)	000~0FF	0EA
IPC003	(Not display)	000 / 001	001
IPC004	(Not display)	000 / 001	000
IPC005	(Not display)	000~00F	000
IPC006	(Not display)	000~0FF	000
IPC007	(Not display)	000~00F	006
IPC008	(Not display)	000~0FF	071
IPC009	(Not display)	000~00F	005
IPC010	(Not display)	000~0FF	0DB
IPC011	(Not display)	000~00F	000
IPC012	(Not display)	000~0FF	000
IPC013	(Not display)	000~003	000
IPC014	(Not display)	000 / 001	000
IPC015	(Not display)	000 / 001	001
IPC016	(Not display)	000~0FF	000
IPC017	(Not display)	000 / 001	000
IPC018	(Not display)	000~07F	000
IPC019	(Not display)	000 / 001	000
IPC020	(Not display)	000~07F	001
IPC021	(Not display)	000~00F	000
IPC022	(Not display)	000~0FF	048
IPC023	(Not display)	000~003	000
IPC024	(Not display)	000~0FF	000
IPC025	(Not display)	000 / 001	000
IPC026	(Not display)	000~07F	020
IPC027	(Not display)	000~001	000
IPC028	(Not display)	000~07F	01B
IPC029	(Not display)	000 / 001	001
IPC030	(Not display)	000 / 001	000
IPC031	(Not display)	000 / 001	000
IPC032	(Not display)	000 / 001	001
IPC033	(Not display)	000 / 001	000
IPC034	(Not display)	000 / 001	001
IPC035	(Not display)	000 / 001	000
IPC036	(Not display)	000 / 001	000
IPC037	(Not display)	000 / 001	000
IPC038	(Not display)	000 / 001	000
IPC039	(Not display)	000 / 001	000
IPC040	(Not display)	000 / 001	000
IPC041	(Not display)	000 / 001	000
IPC042	(Not display)	000 / 001	000
IPC043	(Not display)	000 / 001	000
IPC044	(Not display)	000 / 001	000

Item No.	Item name	Variable range	Initial setting value
IPD001	(Not display)	000~0FF	040
IPD002	(Not display)	000~0FF	000
IPD003	(Not display)	000~0FF	000
IPD004	(Not display)	000~007	000
IPD005	(Not display)	000~0FF	010
IPD006	(Not display)	000~007	002
IPD007	(Not display)	000~0FF	0E5
IPD008	(Not display)	000 / 001	001
IPD009	(Not display)	000~00F	001
IPD010	(Not display)	000~0FF	00E
IPD011	(Not display)	000~00F	006
IPD012	(Not display)	000~0FF	001
IPD013	(Not display)	000~007	004
IPD014	(Not display)	000~007	000
IPD015	(Not display)	000 / 001	000
IPD016	(Not display)	000 / 001	000
IPD017	(Not display)	000~0FF	03F
IPD018	(Not display)	000~007	000
IPD019	(Not display)	000~0FF	026
IPD020	(Not display)	000~007	002
IPD021	(Not display)	000~0FF	0DC
IPD022	(Not display)	000 / 001	001
IPD023	(Not display)	000~00F	001
IPD024	(Not display)	000~0FF	01E
IPD025	(Not display)	000~00F	005
IPD026	(Not display)	000~0FF	0F5

·			i
Item No.	Item name	Variable range	Initial setting value
IPE001	(Not display)	000~255	001
IPE002	(Not display)	000~255	002
IPE003	(Not display)	000~255	001
IPE004	(Not display)	000~255	002
IPE005	(Not display)	000~255	001
IPE006	(Not display)	000~255	001
IPE007	(Not display)	000~255	001
IPE008	(Not display)	000~255	001
IPE009	(Not display)	-128~+127	+010
IPE010	(Not display)	-128~+127	+010
IPE011	(Not display)	-128~+127	+010
IPE012	(Not display)	-128~+127	+010
IPE013	(Not display)	-128~+127	-004
IPE014	(Not display)	-128~+127	008
IPE015	(Not display)	000~00F	006

4.6.7 [0.HDMI] (All fixed)

NOTE:

Initial setting value is reference value at following condition.

INPUT SIGNAL : NTSC
ASPECT : FULL
MULTI : SINGLE
VIDEO STATUS : STANDARD

COLOR TEMPERATURE : LOW

		Variable	Initial setting
Item No.	Item name	range	value
HDM001	(Not display)	000 / 001	000
HDM002	(Not display)	000 / 001	000
HDM003	(Not display)	000 / 001	000
HDM004	(Not display)	000 / 001	000
HDM005	(Not display)	000 / 001	001
HDM006	(Not display)	000~003	000
HDM007	(Not display)	000 / 001	000
HDM008	(Not display)	000 / 001	000
HDM009	(Not display)	000 / 001	000
HDM010	(Not display)	000 / 001	000
HDM011	(Not display)	000 / 001	000
HDM012	(Not display)	000 / 001	000
HDM013	(Not display)	000 / 001	001
HDM014	(Not display)	000 / 001	000
HDM015	(Not display)	000 / 001	000
HDM016	(Not display)	000~255	000
HDM017	(Not display)	000~255	000
HDM018	(Not display)	000~255	000
HDM019	(Not display)	000 / 001	001
HDM020	(Not display)	000~255	000
HDM021	(Not display)	000~007	002
HDM022	(Not display)	000~063	006
HDM023	(Not display)	000~063	006
HDM024	(Not display)	000~063	006
HDM025	(Not display)	000 / 001	000
HDM026	(Not display)	000~003	000
HDM027	(Not display)	000~255	212
HDM028	(Not display)	000~003	000
HDM029	(Not display)	000~255	192
HDM030	(Not display)	000~003	000
HDM031	(Not display)	000~255	212
HDM032	(Not display)	000~003	000
HDM033	(Not display)	000~255	191
HDM034	(Not display)	000~003	001
HDM035	(Not display)	000~255	000
HDM036	(Not display)	000~255	026
HDM037	(Not display)	000~255	000
HDM038	(Not display)	000~255	000
HDM039	(Not display)	000 / 001	001

Item No.	Item name	Variable range	Initial setting value
HDM040	(Not display)	000 / 001	001
HDM041	(Not display)	000 / 001	000
HDM042	(Not display)	000~255	001
HDM043	(Not display)	000~007	003
HDM044	(Not display)	000~003	000
HDM045	(Not display)	000~003	000
HDM046	(Not display)	000 / 001	001
HDM047	(Not display)	000~015	007
HDM048	(Not display)	000~255	000
HDM049	(Not display)	000~255	000
HDM050	(Not display)	000~015	000
HDM051	(Not display)	000 / 001	000
HDM052	(Not display)	000 / 001	000
HDM053	(Not display)	000 / 001	000
HDM054	(Not display)	000 / 001	000
HDM055	(Not display)	000 / 001	000
HDM056	(Not display)	000 / 001	000
HDM057	(Not display)	000 / 001	001
HDM058	(Not display)	000 / 001	000
HDM059	(Not display)	000 / 001	001
HDM060	(Not display)	000 / 001	000
HDM061	(Not display)	000 / 001	001
HDM062	(Not display)	000 / 001	001
HDM063	(Not display)	000 / 001	000
HDM064	(Not display)	000 / 001	000
HDM065	(Not display)	000 / 001	001
HDM066	(Not display)	000 / 001	000
HDM067	(Not display)	000 / 001	001
HDM068	(Not display)	000~031	004
HDM069	(Not display)	000 / 001	000
HDM070	(Not display)	000 / 001	001
HDM071	(Not display)	000 / 001	000
HDM072	(Not display)	000 / 001	000
HDM073	(Not display)	000 / 001	000
HDM074	(Not display)	000~031	800
HDM075	(Not display)	000 / 001	001
HDM076	(Not display)	000 / 001	001
HDM077	(Not display)	000 / 001	001
HDM078	(Not display)	000 / 001	001
HDM079	(Not display)	000 / 001	001
HDM080	(Not display)	000 / 001	001

Item No.	Item name	Variable range	Initial setting value
RHD001	(Not display)	(Not display)	001
RHD002	(Not display)	(Not display)	000
RHD003	(Not display)	(Not display)	042
RHD004	(Not display)	(Not display)	099
RHD005	(Not display)	(Not display)	000
RHD006	(Not display)	(Not display)	000
RHD007	(Not display)	(Not display)	039
RHD008	(Not display)	(Not display)	042
RHD009	(Not display)	(Not display)	02E
RHD010	(Not display)	(Not display)	0EF
RHD011	(Not display)	(Not display)	0AE
RHD012	(Not display)	(Not display)	035
RHD013	(Not display)	(Not display)	0F3
RHD014	(Not display)	(Not display)	0A9
RHD015	(Not display)	(Not display)	0CF
RHD016	(Not display)	(Not display)	0B7
RHD017	(Not display)	(Not display)	058
RHD018	(Not display)	(Not display)	04E
RHD019	(Not display)	(Not display)	008
RHD020	(Not display)	(Not display)	074
RHD021	(Not display)	(Not display)	04A
RHD022	(Not display)	(Not display)	0C2
RHD023	(Not display)	(Not display)	042
RHD024	(Not display)	(Not display)	048
RHD025	(Not display)	(Not display)	058
RHD026	(Not display)	(Not display)	0F3
RHD027	(Not display)	(Not display)	000
RHD028	(Not display)	(Not display)	000
RHD029	(Not display)	(Not display)	000
RHD030	(Not display)	(Not display)	000
RHD031	(Not display)	(Not display)	000
RHD032	(Not display)	(Not display)	000
RHD033	(Not display)	(Not display)	0E1
RHD034	(Not display)	(Not display)	001
RHD035	(Not display)	(Not display)	023
RHD036	(Not display)	(Not display)	00A
RHD037	(Not display)	(Not display)	000
RHD038	(Not display)	(Not display)	000
RHD039	(Not display)	(Not display)	000
RHD040	(Not display)	(Not display)	000
RHD041	(Not display)	(Not display)	000
RHD042	(Not display)	(Not display)	020
RHD043	(Not display)	(Not display)	000
RHD044	(Not display)	(Not display)	000
RHD045	(Not display)	(Not display)	000

Item No.	Item name	Variable range	Initial setting value
RHD046	(Not display)	(Not display)	000
RHD047	(Not display)	(Not display)	00C
RHD048	(Not display)	(Not display)	000
RHD049	(Not display)	(Not display)	068
RHD050	(Not display)	(Not display)	03C
RHD051	(Not display)	(Not display)	001
RHD052	(Not display)	(Not display)	008
RHD053	(Not display)	(Not display)	004
RHD054	(Not display)	(Not display)	000
RHD055	(Not display)	(Not display)	000
RHD056	(Not display)	(Not display)	000
RHD057	(Not display)	(Not display)	000
RHD058	(Not display)	(Not display)	000
RHD059	(Not display)	(Not display)	00B
RHD060	(Not display)	(Not display)	002
RHD061	(Not display)	(Not display)	000
RHD062	(Not display)	(Not display)	000
RHD063	(Not display)	(Not display)	000
RHD064	(Not display)	(Not display)	000
RHD065	(Not display)	(Not display)	000
RHD066	(Not display)	(Not display)	000
RHD067	(Not display)	(Not display)	000
RHD068	(Not display)	(Not display)	000
RHD069	(Not display)	(Not display)	000
RHD070	(Not display)	(Not display)	000
RHD071	(Not display)	(Not display)	000
RHD072	(Not display)	(Not display)	000
RHD073	(Not display)	(Not display)	000
RHD074	(Not display)	(Not display)	000
RHD075	(Not display)	(Not display)	000
RHD076	(Not display)	(Not display)	000
RHD077	(Not display)	(Not display)	000
RHD078	(Not display)	(Not display)	000
RHD079	(Not display)	(Not display)	000
RHD080	(Not display)	(Not display)	000
RHD081	(Not display)	(Not display)	000
RHD082	(Not display)	(Not display)	000
RHD083	(Not display)	(Not display)	000
RHD084	(Not display)	(Not display)	000
RHD085	(Not display)	(Not display)	000
RHD086	(Not display)	(Not display)	000
RHD087	(Not display)	(Not display)	000
RHD088	(Not display)	(Not display)	000
RHD089	(Not display)	(Not display)	000
RHD090	(Not display)	(Not display)	000

Item No.	Item name	Variable range	Initial setting value
RHD091	(Not display)	(Not display)	000
RHD092	(Not display)	(Not display)	000
RHD093	(Not display)	(Not display)	000
RHD094	(Not display)	(Not display)	000
RHD095	(Not display)	(Not display)	000
RHD096	(Not display)	(Not display)	000
RHD097	(Not display)	(Not display)	000
RHD098	(Not display)	(Not display)	000
RHD099	(Not display)	(Not display)	000
RHD100	(Not display)	(Not display)	000
RHD101	(Not display)	(Not display)	000
RHD102	(Not display)	(Not display)	000
RHD103	(Not display)	(Not display)	000
RHD104	(Not display)	(Not display)	000
RHD105	(Not display)	(Not display)	000
RHD106	(Not display)	(Not display)	000
RHD107	(Not display)	(Not display)	000
RHD108	(Not display)	(Not display)	000
RHD109	(Not display)	(Not display)	000
RHD110	(Not display)	(Not display)	000
RHD111	(Not display)	(Not display)	000
RHD112	(Not display)	(Not display)	000
RHD113	(Not display)	(Not display)	000
RHD114	(Not display)	(Not display)	000
RHD115	(Not display)	(Not display)	000
RHD116	(Not display)	(Not display)	000
RHD117	(Not display)	(Not display)	000
RHD118	(Not display)	(Not display)	000
RHD119	(Not display)	(Not display)	000
RHD120	(Not display)	(Not display)	000
RHD121	(Not display)	(Not display)	000
RHD122	(Not display)	(Not display)	000
RHD123	(Not display)	(Not display)	000
RHD124	(Not display)	(Not display)	000
RHD125	(Not display)	(Not display)	000
RHD126	(Not display)	(Not display)	000
RHD127	(Not display)	(Not display)	000
RHD128	(Not display)	(Not display)	000
RHD129	(Not display)	(Not display)	000
RHD130	(Not display)	(Not display)	000
RHD131	(Not display)	(Not display)	000
RHD132	(Not display)	(Not display)	000
RHD133	(Not display)	(Not display)	000
RHD134	(Not display)	(Not display)	000
RHD135	(Not display)	(Not display)	000

Item No.	Item name	Variable range	Initial setting value
RHD136	(Not display)	(Not display)	000
RHD137	(Not display)	(Not display) (Not display)	
RHD138	(Not display)	(Not display)	000
RHD139	(Not display)	(Not display)	000
RHD140	(Not display)	(Not display)	000
RHD141	(Not display)	(Not display)	000
RHD142	(Not display)	(Not display)	000
RHD143	(Not display)	(Not display)	000
RHD144	(Not display)	(Not display)	000
RHD145	(Not display)	(Not display)	000
RHD146	(Not display)	(Not display)	000
RHD147	(Not display)	(Not display)	000
RHD148	(Not display)	(Not display)	000
RHD149	(Not display)	(Not display)	000
RHD150	(Not display)	(Not display)	000
RHD151	(Not display)	(Not display)	000
RHD152	(Not display)	(Not display)	000
RHD153	(Not display) (Not displ		000
RHD154	(Not display)	(Not display)	000
RHD155	(Not display)	(Not display)	000
RHD156	(Not display)	(Not display)	000
RHD157	(Not display)	(Not display)	000
RHD158	(Not display)	(Not display)	000
RHD159	(Not display)	(Not display)	000
RHD160	(Not display)	(Not display)	000
RHD161	(Not display)	(Not display)	000
RHD162	(Not display)	(Not display)	000
RHD163	(Not display)	(Not display) (Not display)	
RHD164	(Not display) (Not display		000
RHD165	(Not display) (Not display)		000
RHD166	(Not display) (Not display)		000
RHD167	(Not display)	(Not display) (Not display)	
RHD168	(Not display)	(Not display)	000
RHD169	(Not display)	(Not display)	000
RHD170	(Not display)	(Not display)	000

4.7 ADJUSTMENT PROCEDURE

4.7.1 CHECK ITEMS

Item	Measuring instrument	Test point	Adjustment part	Description
X-RAY PROTECTOR check	Resistor [2.2k Ω 1/4W ±11 Ω]	S1 connector 2 pin : X-Ray2 3 pin : X-Ray1		 (1) Receive any broadcast. (2) Connect resistor2.2kΩ (1/4W, ±11Ω) between 2 pin & 3 pin of the connector S1.
		[POWER & DEF PWB]		(3) Confirm that the X-RAY protector functions operated.

4.7.2 HIGH VOLTAGE ADJUSTMENT

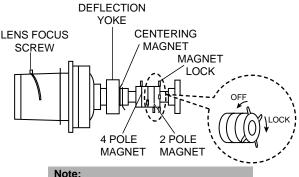
Item	Measuring instrument	Test point	Adjustment part	Description
HIGH VOLTAGE adjustment	Signal generator HV voltmeter	CRT Anode	HV ADJ.VR (R590) [POWER & DEF PWB]	 (1) Receive NTSC whole black signal. (2) Connect the HV voltmeter between CRT anode and GND. (3) Adjust the HV ADJ. VR at the side of the FBT so that the high voltage DC 31.0kV±0.15kV is applied. At this time, replace the HV ADJ. VR with new one and carry out the above-mentioned adjustment if the HV ADJ. VR is shielded with silicon bond. When adjustment has been completed, shield the HV ADJ. VR entirely whith silicon bond without fail.

4.7.3 HORIZONTAL FREQUENCY ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
H. FREQUENCY	Signal		[1.PICTURE/SOUND]	(1) Receive any broadcast.
adjustment	generator Remote control unit		D15 : H. FREQ. D18 : DEF. RST	 (2) Select FULL mode with [ASPECT] key. (3) Select 1. PICTURE/SOUND from SERVICE MENU. (4) Select < D18 > (DEF. RST) and change the data 0 to 1. (5) While observing the screen, adjust the < D15 > (H. FREQ) so that an optimum horizontal synchronization is obtained. (6) Press [MUTING] key to memorize the set value. (7) After adjustment, select < D18 > and change the data 1 to 0. (8) Press [MUTING] key to memorize the set value.

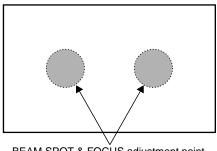
4.7.4 FOCUS & BEAM SPOT ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	
FOCUS & BEAM SPOT adjustment	Signal generator Similar adhesive (Securing adhesive)		R Def. yoke (DY) G Def. yoke (DY) B Def. yoke (DY) [PROJECTION UNIT] R LENS FOCUS screw G LENS FOCUS screw B LENS FOCUS screw [PROJECTION UNIT]	
			(LENS ASS'Y)] 4 pole magnet 2 pole magnet [PROJECTION UNIT (R / G / B CRT neck)] R FOCUS VR G FOCUS VR B FOCUS VR [FOCUS PACK]	

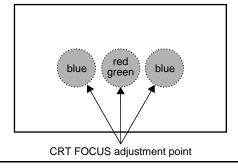


Note: MAGNET LOCK is added. Turn to right to LOCK, turn to left to OFF.

PROJECTION UNIT & LENS ASS'Y



BEAM SPOT & FOCUS adjustment point



- (1) Receive NTSC cross-hatch signal.
- (2) Select FULL mode with [ASPECT] key.
- (3) If the picture tilted, adjust the R, G and B DY position to mark straight horizontal line.

Description

LENS FOCUS

(1) Makes a red single color.

NOTE:

When making a single color, while adjusting focus of one CRT, put the cap on other lens.

- (2) By turning the LENS FOCUS screw (in LENS ASS'Y), for optimum focus at the screen center. Check for absence of difference in the peripheral focus. If the peripheral focus is poor, slightly shift the center focus to obtain overall balanced focus.
- (3) In the same manner, produce green and blue single color and adjust their respective focus.
- (4) After adjustment, it fixes a screw.

NOTE:

There is not a difference in the focus in the top and the bottom, on either side, in the diagonal.

When the difference of the focus is big, it removes a main lens, and it puts a washer between the main lens and the coupler and it adjusts it.

BEAM SPOT

- (5) Receive NTSC dot pattern signal.
- (6) Makes a red single color.
- (7) Turn the R FOCUS VR clockwise from just focus point, to set the dot diameter equal to Ø30mm.
- (8) Turn the 4 pole magnet of the projection unit CRT neck and make beam shape round as circle on the position between center and both ends of the screen.
- (9) Adjust the R FOCUS VR for optimum focus at the position indicated in the figure.
- (10) In the same manner, adjust for the green and blue single color focus.
- (11) Turn the 2 pole magnet of the CRT neck to minimize expansion of the dots.
- (12) Secure the 4 and 2 pole magnets with similar adhesive.

CRT FOCUS

- (13) Receive NTSC cross-hatch signal.
- (14) Makes a red single color.
- (15) Adjust the R FOCUS VR for optimum focus at the position indicated in the figure.
- (16) In the same manner, adjust for the green and blue single color focus.

4.7.5 DEFLECTION & CONVERGENCE ADJUSTMENT

- The adjustment using the remote control unit is made on the basis of the initial setting values.
- The setting values which adjust the screen to the optimum condition can be different from the initial setting values.
- At first the adjustment in FULL mode should be done, then the data for the other ASPECT mode is corrected in the respective value at the same time.

4.7.5.1 FLOWCHART OF ADJUSTMENT

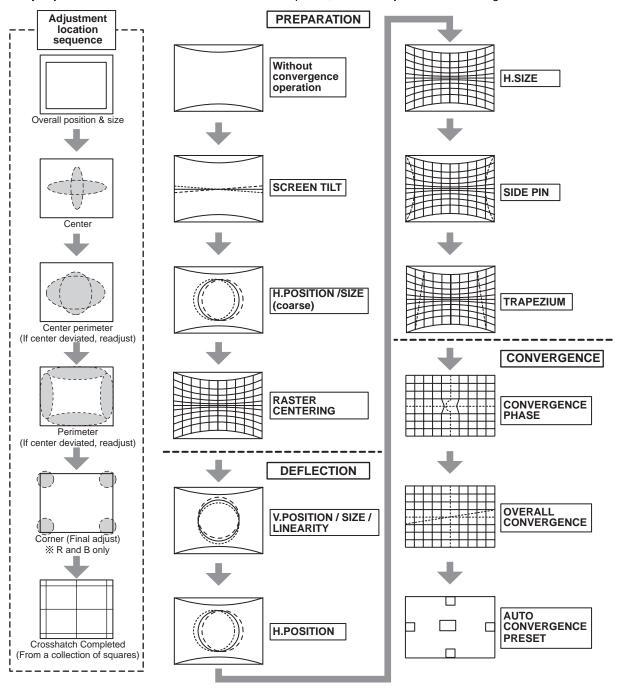
CAUTION:

All adjustments of the DEFLECTION circuit for this model should be carried out under the status without convergence operation. To enter the mode without convergence operation, select 1.PICTURE/SOUND and change the data in the setting item F62 from 0 to 1. (For details, please refer to the adjustment of DEFLECTION.)

As a result, you can get the screen as shown in bellow figure. Adjust the DEFLECTION circuit in order of the steps indicated by the downward arrows.

NOTE:

When every adjustment of the DEFLECTION circuit has completed, start the adjustment of convergence.



4.7.5.2 PREPARATION

Item	Measuring instrument	Test point	Adjustment part	Description
SCREEN TIL' adjustment	generator Remote control unit	JRE/SOUND men	[1.PICTURE/SOUND] F62: Without convergence operation G DEF. YOKE R DEF. YOKE B DEF. YOKE [PROJECTION UNIT]	 (3) Select < F62 > (Without convergence operation). (4) Change the data 0 to 1, then it makes picture without convergence operation. (5) Makes a green single color. NOTE: When making a single color, while adjusting of
1. PICTURE/SOUND menu *** *** ***			one CRT, put the cap on other lens. (6) Temporarily secure the G deflection yoke to the top of the neck and adjust the tilt of the deflection yoke so that the horizontal line at the center becomes flat. After adjustment, fasten the temporal screw. (7) Adjust the tilt of the R and B deflection yokes in the same manner as for green. NOTE:	
	Selec	ct item Change v 0 → 1	alue	Make sure that the adjustment of CRT FOCUS is optimized at the center and at the fringe of the center in turn. If the proper adjustment has not been done, adjust FOCUS VR again. (8) After adjustment, select < F62 > and change the data 1 to 0. (9) Press [MUTING] key and memorize the set value.
				NOTE: Adjustment according to an internal signal using TEST MODE is also possible.
H. POSITION SIZE (coarse adjustment			[1.PICTURE/SOUND] D03 : H. SIZE D14 : H. CENTER F62 : Without convergence operation	
l	Item No.	Item Name S	ettingValue	(5) Makes a green single color. NOTE:
	CPA02 CPA03	OSD H OSD V	135 021	When making a single color, while adjusting of one CRT, put the cap on other lens. (6) Select < D03 > (H. SIZE) and shorten the level until and perpendicular amplitude of vibration with until the blanking in Left and Right and on either side can be seen.
				 (7) Select < D14 > (H. CENTER) and adjust horizontal position to make the screen center and signal center. (8) Select < D03 > and adjust horizontal size to make screen picture approx. 92% of H-SIZE. (9) Press [MUTING] key and memorize the set value. (10) After adjustment, select < F62 > and change the data 1 to 0. (11) Press [MUTING] key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description
RASTER CENTERING adjustment	Signal generator Remote control unit		G CENTERING magnet R CENTERING magnet B CENTERING magnet [DEF. YOKE]	NOTE: Carry out after finishing adjustment of H. POSITION and H. SIZE. (1) Receive NTSC cross-hatch signal. (2) Adjust G CENTERING magnet to make horizontal and vertical line center as mechanical center of screen. (3) Red and blue color too, are reflected by it.
	R G E	m	lechanical enter G B	(4) Using R CENTERING magnet and B CENTERING magnet, adjusts for the line of the red(L1) and the blue(L2) to become the position of the left figure. NOTE: Vertical center position of the red and blue are the same as green. NOTE:
L	L1————————————————————————————————————	——L2 L2=45mm		Adjustment according to an internal signal using TEST MODE is also possible.

4.7.5.3 DEFLECTION ADJUSTMENT

Item	Measuring instrument	Test point	Adjustment part	Description
V. POSITION / SIZE / LINEARITY adjustment	Signal generator Remote control unit		[1.PICTURE/SOUND] D01 : V. SIZE D05 : V. LINE D06 : V. CENT F62 : Without convergence operation	 To memorize every time after finish adjustment on each mode. (1) Receive NTSC circle pattern signal. (2) Select FULL mode with [ASPECT] key. (3) Select 1. PICTURE/SOUND from SERVICE MENU. (4) Select < F62 > (Without convergence operation).
	C ((5) Change the data 0 to 1, then it makes picture without convergence operation. (6) Select < D01 > (V. SIZE), < D05 > (V. LINE), < D06 > (V. CENT). (7) Adjust < D01 >, < D05 > and < D06 > to make A = B (precision ±2mm), and adjust to make C = 80mm (8) Press [MUTING] key and memorize the set value. (9) After adjustment, select < F62 > and change the data 1 to 0. (10) Press [MUTING] key and memorize the set value.
				NOTE: Do not adjust < D04 > (V. S-CORRECTION), if it is different vertical position after adjust vertical linearity, to adjust vertical position.
H. POSITION adjustment	Signal generator Remote control unit		[1.PICTURE/SOUND] D14 : H. CENTER F62 : Without convergence operation	 (1) Receive NTSC circle pattern signal. (2) Select FULL mode with [ASPECT] key. (3) Select 1. PICTURE/SOUND from SERVICE MENU. (4) Select < F62 > (Without convergence operation). (5) Change the data 0 to 1, then it makes picture without
	→ D 4	E	←	convergence operation. (6) Select < D14 > (H. CENTER). (7) Adjust < D14 > to make D = E as shown figure. (8) Press [MUTING] key and memorize the set value. (9) After adjustment, select < F62 > and change the data 1 to 0. (10) Press [MUTING] key and memorize the set value.
H. SIZE adjustment	Signal generator Remote control unit	1 - 1	[1.PICTURE/SOUND] D03 : H. SIZE F62 : Without convergence operation	 (1) Receive NTSC cross-hatch signal. (2) Select FULL mode with [ASPECT] key. (3) Select 1. PICTURE/SOUND from SERVICE MENU. (4) Select < F62 > (Without convergence operation). (5) Change the data 0 to 1, then it makes picture without
		Picture size 100%		convergence operation. (6) Select < D03 > (H. SIZE). (7) Adjust < D03 > to make sure that the vertical screen size of the picture size is 92%. (8) Press [MUTING] key and memorize the set value. (9) After adjustment, select < F62 > and change the data 1 to 0. (10) Press [MUTING] key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description
SIDE PIN adjustment	Signal generator Remote control unit		[1.PICTURE/SOUND] D02 : EW D08 : BOT.CORN D09 : TOP.CORN F62 : Without convergence operation	 (1) Receive NTSC cross-hatch signal. (2) Select FULL mode with [ASPECT] key. (3) Select 1. PICTURE/SOUND from SERVICE MENU. (4) Select < F62 > (Without convergence operation). (5) Change the data 0 to 1, then it makes picture without convergence operation.
		Straight		 (6) Select < D02 > (EW), < D08 > (BOT.CORN), < D0 (TOP.CORN). (7) Adjust < D02 >, < D08 >, < D09 > to make the vertilines at the left and right edges of the screen straige. (8) Press [MUTING] key and memorize the set value. (9) After adjustment, select < F62 > and change data 1 to 0. (10) Press [MUTING] key and memorize the set value. NOTE: After making adjustments, confirm that horizontal position is properly adjusted. If horizontal is out of alignment, readjust it. Adjust SIZE & SIDE PIN reparably.
TRAPEZIUM adjustment	Signal generator Remote control unit	Parallel	[1.PICTURE/SOUND] D07 : EW.TRAP F62 : Without convergence operation	 Receive NTSC cross-hatch signal. Select FULL mode with [ASPECT] key. Select 1. PICTURE/SOUND from SERVICE MENU. Select < F62 > (Without convergence operation). Change the data 0 to 1, then it makes picture without convergence operation. Select < D07 > (EW.TRAP). Adjust < D07 > to bring the vertical lines at the right and left edges of the screen parallel. Press [MUTING] key and memorize the set value. After adjustment, select < F62 > and change the data 1 to 0. Press [MUTING] key and memorize the set value. NOTE: After making adjustments, confirm that the horizontal position is properly adjusted. If the horizontal is out of alignment, readjust it. Adjust H SIZE & SIDE PIN reparably.

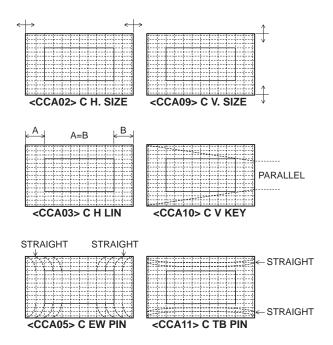
4.7.5.4 CONVERGENCE ADJUSTMENT

Item	Measuring instrument	Test poin	nt Adjust	ment part	Description
CONVERGENCE PHASE [check]	Signal generator Remote control unit		[6.CONVI CPA04 : I CPA05 : I CPA06 : (CPA07 : (CPA08 : (FINE H FINE V CAU V CAU H1	NOTE: Be sure to make it the value of Table1. Supposing data differs, correct to the value of Table1. When data is corrected (when the MUTING key in pushed), it is necessary to perform an AUTO CONVERGENCE PRESET, after a convergence.
	CPA04 CPA05 CPA06 CPA07 CPA08	FINE H FINE V CAU V CAU H1 CAU H2 Table 1	Initial setting value 1110 72 0 0 0		adjusts exactly. (1) Receive NTSC cross-hatch signal. (2) Select 6.CONVER A from SERVICE MENU. (3) Select < CPA > item with number [0] key. (4) Check and set data that < CPA04 > ~ < CPA08 > are same value as table1. (5) Press [MUTING] key and memorize the set values. (6) Perform an AUTO CONVERGENCE PRESET. Be sure, after a convergence adjusts exactly. Refer to page 61.
CPA * † CBA * MUTING For storir data in m OK key For displa	ER "0" key * → CCA** * ← CDA** is key g adjustment emory	VOL OK VOL	SELECT ke For adjusting color change CH+ / CH- I Item No.char [CH+]: up [CH-]: down VOL+ / VOI key	sey ige	

instrument rest point Adjustment par	t
CONVERGENCE Generator Generator CPA01 : FINE OFF	V

Hama Nia	14	Initia	al setting va	alue
Item No.	Item name	GREEN	RED	BLUE
CCA01	C H CENT	0	-120	160
CCA02	C H SIZE	0	0	-5
CCA03	C H LIN	-45	200	-190
CCA04	C H SKEW	0	0	0
CCA05	C EW PIN	0	0	0
CCA06	C H BOW	0	0	0
CCA07	C V CENT	0	0	0
CCA08	C V SKEW	0	0	0
CCA09	C V SIZE	-140	-120	-120
CCA10	C V KEY	20	15	-25
CCA11	C TB PIN	230	170	210

Table 2



NOTE:

Be sure to make it the value of Table2. Supposing data differs, correct to the value of Table2.

Description

When data is corrected (when the MUTING key is pushed), it is necessary to perform an AUTO CONVERGENCE PRESET, after a convergence adjusts exactly.

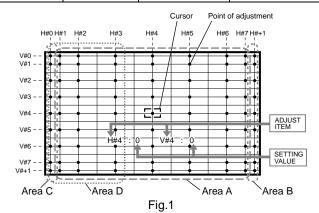
- (1) Receive NTSC cross-hatch signal.
- (2) Select 6.CONVER A from SERVICE MENU.
- (3) Select < CPA01 > (FINE OFF).
- (4) Change the data 0 to1. (Clear the fine adjustment data)
- (5) Select < CCA > item with number [0] key. Then a green cross-hatch pattern for adjustment will be displayed on the screen.
- (6) Check and set data < CCA01 > ~ < CCA11 > are same value as table2.
- (7) Press [SELECT] key to change the adjusting color to red and blue.

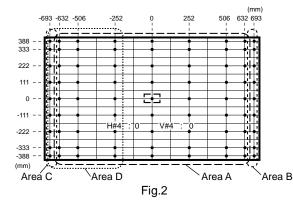
NOTE:

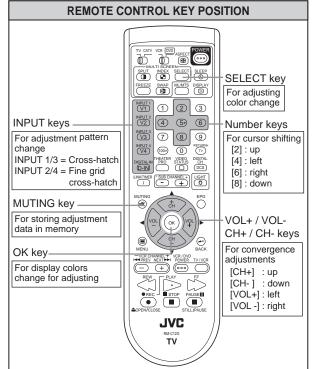
Press [OK] key to change the display colors. Whenever [OK] key is pressed, the menu will sequence in this order: "Two colors (adjusting color+green)"—"Three colors (RGB)"

- (8) Press [MUTING] key and memorize the set values.
- (9) Select < CPA01 >.
- (10) Change the < CPA01 > 1 to 0.
- (11) Press [MUTING] key and memorize the set values.
- (12) Perform an AUTO CONVERGENCE PRESET. Be sure, after a convergence adjusts exactly. Refer to page 61.

Item	Measuring instrument	Test point	Adjustment part
OVERALL CONVERGENCE (POINT)	Signal generator		[7.CONVER B]
adjustment	Remote control unit		







NOTE:

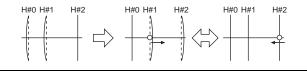
Perform this adjustment after performing OVERALL CONVERGENCE (LINE) check.

Description

It adjusts displaying and checking adjustment data by the [DISPLAY] key. Adjust in order of Area A, Area B, Area C and Area D.

- (1) Select 7.CONVER B from SERVICE MENU. Then appear green cross-hatch pattern for adjustment. (See Fig.1)
- (2) Press [DISPLAY] key for displaying and checking adjustment data.
- (3) Press [2]/[4]/[6]/[8] key respectively, move the cursor to the adjusting point.
- (4) Press [CH+] / [CH-] / [VOL+] / [VOL-] key, adjust the position of the adjusting point so that it is located at the place as shown in Fig.2.
- (5) Adjust Area A.
- (6) Adjust Area B. The setting value of Area B (H#+1) has restrictions. Green and blue limit to +300. Red limits to ±100.
- (7) Adjust Area C. Based on the adjustment value of Area B, the data of Area C inputs the compulsive value of the following table.
- (8) Adjust Area D. It adjusts toward an outside from the inner side of a screen. (e.g. H#3 > H#2 > ---) H#0 is fixed data with the value inputted by adjustment of Area C. When the point of H#0 needs to be adjusted, adjusts the data of H#1 and H#2. If the data of H#1 adjusts H#0, H#2 will move, the data of H#2 adjusts H#1 and H#2. It repeats if needed.
- (9) Press [SELECT] key to select the red and blue cross-hatch patterns, respectively, and make convergence adjustments so that they align with the adjusting points of the green cross-hatch pattern (reference color).
- (10) Press [OK] key to change the display colors to three colors from two colors (adjusting color + green) and make sure that the convergence has been aligned with each other.
- (11) Press [INPUT 2] or [INPUT4] key. After changing the pattern to the fine grid cross-hatch pattern, make sure that the convergence has been adjusted properly.
- (12) Press [MUTING] key and memorize the set values.
- (13) Perform an AUTO CONVERGENCE PRESET.

H value		H data (adapted for only H data)					
Color	H#+1 value	H#0 value	e.g. value				
GREEN	0 ~+200	0	[H#+1]=+150> [H#0]=0				
BLUE	+200 ~ +300	[H#+1]-200	[H#+1]=+250> [H#0]=+50				
	-1~-100	same as [H#+1]	[H#+1]=-75> [H#0]=-75				
RED	0~+50	0	[H#+1]=+25> [H#0]=0				
	+50~+100	[H#+1]-50	[H#+1]=+70> [H#0]=+20				



Item	Measuring instrument	Test point	Adjustment part	Description
AUTO CONVERGENCE (SUPER FOCUS) setting	Signal generator Remote control unit		[6.CONVER A]	AUTO CONVERGENCE (SUPER FOCUS) PRESET AUTO CONVERGENCE PRESET is a work in which you store (memorize) an optimum reference CONVERGENCE in SUPER FOCUS operation in the unit. At the factory, this PRESET has been carried ou
FRO	NT CONTROL	POWER		and memorized in the unit after adjusting CONVERGENCE. However, PRESET will be invalid when the servicing is carried out in accordance with the following conditions. In this case, it is necessary to execute PRESET again.
	TENU — CHANNEL + OPERATE ▶ S-VIDEO OPERATE D OPERA	- VOLUME - INPUT-4 AUDIO L/MONO R	+ SUPER FOUND	CONDITIONS THAT RESET IS EXECUTED (1) When the data is memorized with the [MUTING key on SERVICE MENU 6.CONVER A regardles of the change of data (CPA, CCA, CDA and CBA) (2) When the data is memorized with the [MUTING key on SERVICE MENU 7.CONVER B regardles of CONVERGENCE adjustment.
		SUPER FOCU	JS button	NOTE FOR PRESET It is required that you must execute PRESET whe CONVERGENCE has been properly adjuste because the CONVERGENCE will be a reference t SUPER FOCUS. When SENSOR around the SCREEN is replaced to new one, it is also necessary to execute PRESET. It this case, perform RESET according to the steps 1 case, then execute PRESET again.
] s	IJVU		HOW TO EXECUTE PRESET When executing SUPER FOCUS with AUTO button of the USER MENU or SUPER FOCUS button on the FRONT CONTROL, you can execute PRESE automatically when RESET is applied. In this case, dimmed block will be displayed in the center of the screen. (When SUPER FOCUS is operated, a cross shape pattern will be displayed in the center of the screen.)
	s	JVC	ING	When a unicolor block in the center of the screen flashes on and off at PRESET or SUPER FOCUS, means that the input from SENSOR is not normal (input level is too low). In this case, make sure that SENSOR receives enough light from the backside. Not receives enough light It is necessary to readjust RASTER CENTER, HASIZE and CONVERGENCE. Receives enough light Failure of the sensor or defects of detection route (circuit).
		JVC -		

SENSOR IS NOT NORMAL

4.7.6 VIDEO ADJUSTMENT

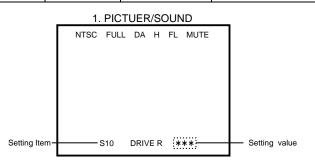
Item	Measuring instrument	Test point	Adjustment part	Description
A-D CONVERTER OFFSET adjustment (1/2)	Signal generator Remote control unit		[1.PICTURE/SOUND] F44: Image adjustment F45: Image adjustment of mode change F47: Minimum value B at the time of detection F48: Maximum value A at the time of detection [8.PP] ADM012: R offset ADM013: G offset	[WHITE BALANCE LOW LIGHT ADJUSTMENT for SINGLE SCREEN] (1) Input the 480i (DVD) whole black signal from the COMPONENT VIDEO terminal. (2) Select STANDARD mode with [VIDEO STATUS] key. (3) Select FULL mode with [ASPECT] key. (4) Select 1.PICTURE / SOUND from SERVICE MENU. (5) It goes into the zero mode screen of difference adjustment of color, using < F44 >(Image adjustment) as 0 to 1, and using < F45 >(Image adjustment mode change) as 0 to 3. (6) Set < F47 > (minimum value B at the time of detection) to 0 and < F48 > (maximum value A at the time of detection) to 0 and < F48 > (maximum value A at the
	whole b	FULL screen> be slightly whitishher than whole bla	ADM014 : B offset	time of detection) to 0. (7) Press [MUTING] key and memorize the set value. (8) Press [BACK] key and display SERVICE MENU screen again. (9) Select 8. PP from SERVICE MENU. (10) Adjust < ADM012 > (R offset setup) and < ADM014 > (B offset setup) so that the adjustment result out put screen in the upper half of a screen becomes black color.(Fig.1) (11) If the screen is reddish, adjust < ADM012 > (R offset setup) so that the redness is reduced to the minimum. (12) If the screen is bluish, adjust < ADM014 > (B offset setup) so that the blue is reduced to the minimum. (13) Press [MUTING] key and memorize the set value.
	Fig. 2 < \$	SPLIT screen>		[BRIGHTNESS ADJUSTMENT for SPLIT RIGHT SCREEN] (14) Input the 480i (DVD) whole black signal from the COMPOSITE VIDEO terminal. (15) Select STANDARD mode with [VIDEO STATUS] key. (16) Select FULL mode with [ASPECT] key. (17) Press [SPLIT] key to enter the SPLIT screen mode, then input gray scale signal on both left and right channels. (18) Select 1.PICTURE/SOUND from SERVICE MENU. (19) It goes into the Y adjustment MAX mode, using < F45 > as 0 and using < F44 > as 0 to 1. (20) Set < F47 > to 16 and < F48 > to 16. (21) Press [MUTING] key and memorize the set value. (22) Press [BACK] key and display the SERVICE MENU. (23) Select 8. PP from SERVICE MENU. (24) Adjust < ADM013 > (G offset setup) so that the screen on the right upper side becomes slightly whitish rather (6% black) than whole black.(Fig.2) (25) Press [MUTING] key and memorize the set value.

Item	Measuring instrument	Test point	Adjustment part	Description
A-D CONVERTER OFFSET adjustment (2/2)	Signal generator Remote control unit		[1.PICTURE/SOUND] F44: Image adjustment F45: Image adjustment of mode change F47: Minimum value B at the time of detection F48: Maximum value A at the time of detection [8.PP] ADM012: R offset ADM014: B offset	[WHITE BALANCE LOW LIGHT ADJUSTMENT for SPLIT RIGHT SCREEN] (1) Input the 480i (DVD) whole black signal from the COMPOSITE VIDEO terminal. (2) Press [SPLIT] key to enter the SPLIT screen mode. (3) Select STANDARD with [VIDEO STATUS] key. (4) Select FULL mode with [ASPECT] key. (5) Select 1. PICTURE SOUND from SERVICE MENU. (6) It goes into the zero mode screen of difference adjustment of color, using < F45 > (Image adjustment mode change) as 0 to 3 and < F44 > (Image adjustment) as 0 to 1. (7) Set < F47 > (minimum value B at the time of detection) to 0 and < F48 > (minimum value A at the time of detection) to 0.
	Fig. 3 <	Whole black		 (8) Press [MUTING] key and memorize the set value. (9) Press [BACK] key and back to SERVICE MENU. (10) Select 8.PP from SERVICE MENU. (11) Adjust < ADM012 > (R offset setup) and < ADM014 > (G offset setup) so that right upside screen becomes whole black. (12) Press [MUTING] key and memorize the set value. (13) Select 1.PICTURE/SOUND from SERVICE MENU. (14) Change the data of < F44 > 1 to 0 and < F45 > 3 to 0. (15) Press [MUTING] key and memorize the set value.

adjustment generator [R CRT S14: CUTOF R (2) S	
Oscilloscope Remote control unit TP-B [B CRT SOCKET PWB] TP-B [B CRT SOCKET PWB] TP-B [B CRT SOCKET PWB] TP-E TP-G CRT SOCKET PWB CRT SOCKET PWB TP-E TP-G Whole black signal (0%) No signal S18: CUTOF B (4) TI (4) TI (5) C (4) TI (4) TI (5) C (9) P (10) R (11) S (11) S (12) S (13) S (13) S (14) C (14) C (15) C (16) A (16) A (16) A	Receive NTSC whole black (0%) signal. Select STANDARD mode with [VIDEO STATUS] key. Select REGULAR mode with [ASPECT] key. The COLOR TEMP set at the LOW mode. Connect the oscilloscope to TP-G on the G CRT SOCKET PWB. Select 1.PICTURE/SOUND from SERVICE MENU. Select < S16 > (CUTOF G). Adjust < S16 > so that the central 0% signal portion and the non-signal portion of both sides may become the same voltage. Press [MUTING] key and memorize the set value. Receive 480i component whole black (0%) signal. Set < S16 > data same as memorized NTSC < S16 > data. Set 1080i component whole black (0%) signal. Set < S16 > data same as memorized NTSC < S16 > data. Connect the oscilloscope to TP-R and < S14 > (CUTOF R) adjust same manner as for 6. ~ 13. above. Connect the oscilloscope to TR-B and < S18 > (CUTOF B) adjust same manner as for 6. ~ 13. above. Adjust SCREEN VR for RGB respectively, so that the black (3%) becomes faintly whitish. NOTE: If it is difficult to adjust the SCREEN precisely, adjust the SCREEN VR for one of three colors while masking other two colors.

Item	Meas instru		Test p	oint	Adjustment part	Description
WHITE BALANCE	Signal genera				[3.WHITE BALANCE] BR	NOTE: Before starting the adjustment, warm up the unit fo
(LOW LIGHT) adjustment	Remot	-			CUT R CUT G	more than 30 minutes. (1) Receive NTSC black & white pattern signal (cold
	control	unit			CUT B	off). (2) Select STANDARD mode with [VIDEO STATUS]
	3	. WHITE	BALANC	E	1	key. (3) The COLOR TEMP is set at the LOW mode.
						 (4) Select 3.WHITE BALANCE from SERVICE MENU. (5) Set the initial setting value. (6) Increase bright level to confirm LOW-LIGHT with [VOL +] key.
BRIGHT LEVEI DRIVE ————————————————————————————————————	→ DR	V R***	B*** G*** B	 ***:		(7) Adjust using [8]/[0] (R CUTOFF), [9]/[TV] (I CUTOFF) key so that a black portion may become black.
	,					NOTE:
				Setti	ng value	Don't change G CUTOFF value since R CUTOFF and B CUTOFF are adjusted based on G CUTOFF (8) Press [MUTING] key and memorize the set values.
	SETTIN NTSC	G VALU	E		_	(9) Input 480i component black & white pattern signa from COMPONENT VIDEO terminal.
	BR DRV	127 R 068	B 069			(10) Repeat steps 5 ~ 8 above.(11) Input 1080i component black & white signal COMPONENT VIDEO terminal.
	CUT	R 085	G 085	B 085		(12) Repeat steps 5 ~ 8 above.
	480i				_	
	BR	127			7	
	DRV	R 073	B 073			
	CUT	R 085	G 085	B 085		
	1080i					
	BR	127				
	DRV	R 071	B 073			
	CUT	R 085	G 085	B 085		
					_	
	RE	EMOTE C	ONTROL	. UNIT		
			2	3	CUTOFF G	
			<u>5</u> •	6	CUTOFF R ▲/▼	
		$\mathbb{Z}_{\mathbf{A}}$	8	9.	CUT OFF B	

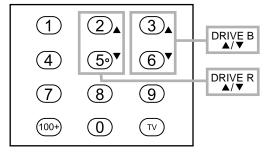
Item	Measuring instrument	Test point	Adjustment part
WHITE BALANCE (HIGH LIGHT)	Signal generator		[1.PICTURE/SOUND] S10: DRIVE R S12: DRIVE B
adjustment	Remote control unit		



INITIAL SETTING VALUE

Signal	Setting value				
Item	NTSC	480i	1080i		
S10	068	061	066		
S12	068	067	069		

REMOTE CONTROL UNIT



(1) Receive NTSC black & white signal (color off).

Description

- (2) Select STANDARD mode with [VIDEO STATUS] key.
- (3) The COLOR TEMP is set at the LOW mode.
- (4) Select 1.PICTER/SOUND from SERVICE MENU.
- (5) Select < S10 > (DRIVE R) and < S12 > (DRIVE B).
- (6) Set the initial setting value.
- (7) Adjust < S10 > and < S12 > so that the natural white should be visible.
- (8) Press [MUTING] key and memorize the set values.
- (9) Input 480i component black & white signal from COMPONENT VIDEO terminal.
- (10) Repeat steps 5 ~ 8 above.
- (11) Input 1080i component black & white signal from COMPONENT VIDEO terminal.
- (12) Repeat steps 5 ~ 8 above.

SUB BRIGHT adjustment	Signal generator	[1.PICTURE/SOUND] S03: BRIGHT
	Remote control unit	

Signal	Setting value					
Item	NT	SC	48	0i	1080i	
000	STANDARD	THEATER	STANDARD	THEATER	STANDARD	THEATER
S03	129	125	128	124	127	126

Table 1

- (1) Receive NTSC black & white signal.
- (2) Select STANDARD mode with [VIDEO STATUS] key.
- (3) The COLOR TEMP is set at the LOW mode.
- (4) Select 1.PICTURE/SOUND from SERVICE MENU.
- (5) Select < S03 > (BRIGHT).
- (6) Set the initial setting value. (See Table1)
- (7) If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness.
- (8) Press [MUTING] key and memorize the set values.
- (9) Select THEATER mode with [VIDEO STATUS] key.
- (10) Select 1.PICTURE/SOUND from SERVICE MENU.
- (11) Select < S03 >.
- (12) Set the initial setting value. (See Table1)
- (13) If the brightness is not the best with the initial setting value, make fine adjustment until you get the best brightness.
- (14) Press [MUTING] key and memorize the set values.
- (15) Input 480i component black & white signal from COMPONENT VIDEO terminal.
- (16) Repeat steps 2 ~ 14 above.
- (17) Input 1080i component black & white signal from COMPONENT VIDEO terminal.
- (18) Repeat steps 2 ~ 14 above.

Item	Measuring instrument	Test point	Adjustment part	Description
UB ONTRAST djustment	Signal generator		[1.PICTURE/SOUND] S04: CONTRAST	(1) Receive NTSC black & white signal. (2) Select STANDARD mode with [VIDEO STATUS key.
	Remote control unit			 (3) The COLOR TEMP is set at the LOW mode. (4) Select 1.PICTURE/SOUND from SERVICE MENU (5) Select < S04 > (CONTRAST).
Sigr	nal	Setting value	Δ	(6) Set the initial setting value. (See Table 2)
Item				(7) If the contrast is not the best with the initial setting
S04	NTSC STANDARD THE	480i EATER STANDARD THEAT	1080i ER STANDARD THEATER	value, make fine adjustment of the < S04 > until y get the optimum contrast.
304	046 0	38 056 047	7 056 044	(8) Press [MUTING] key and memorize the set value
		Table 2		 (9) Select THEATER mode with [VIDEO STATUS] ke (10) Select 1.PICTURE/SOUND from SERVICE MENII (11) Select < S04 >. (12) Set the initial setting value. (See Table 2) (13) If the contrast is not the best with the initial setting value, make fine adjustment of the < S04 > until ying get the optimum contrast. (14) Input 480i component black & white signal from COMPONENT VIDEO terminal. (15) Repeat steps 2 ~ 13 above. (16) Receive 1080i component black & white signal from COMPONENT VIDEO terminal. (17) Repeat steps 2 ~ 13 above.
UB COLOR / UB TINT / -Y GAIN djustment (1)	Signal generator Remote control unit	TP-R [R CRT PWB] TP-B [B CRT PWB] TP-E (GND)	[1.PICTURE/SOUND] S01 : COLOR S02 : TINT S07 : B-Y	[Method of adjustment without measuring instrument (1) Receive NTSC color bar signal. (2) Select STANDARD mode with [VIDEO STATU key. (3) Select 1.PICTURE/SOUND from SERVICE MENT (4) Select < S01 > (COLOR) or < S02 > (TINT). (5) Set the initial setting values. (6) If the color or tint is not the best with the initial setting values, make fine adjustment until you get the best color or the best tint. (7) Select < S07 > (B-Y). (8) Set the initial setting values. (9) If the color bar is not clearly with the initial setting value, make fine adjustment until you get the clean color bar. (10) Press [MUTING] key and memorize the set values (11) Select THEATER mode with [VIDEO STATUS] keg (12) Select < S01 > or < S02 > . (13) Set the initial setting values. (14) If the color or tint is not the best with the initial setting values, make fine adjustment until you get the best color or the best tint. (15) Select < S07 > . (16) Set the initial setting values. (17) If the color bar is not clearly with the initial setting value, make fine adjustment until you get the clean color bar. (18) Press [MUTING] key and memorize the set values (19) Input 480i component color bar signal from COMPONENT VIDEO terminal. (20) Repeat steps 2 ~ 18 above. (21) Input 480p component color bar signal from COMPONENT VIDEO terminal. (22) Repeat steps 2 ~ 18 above. (23) Input 1080i component color bar signal from COMPONENT VIDEO terminal. (22) Repeat steps 2 ~ 18 above. (23) Input 1080i component color bar signal from COMPONENT VIDEO terminal.

Item	Measuring instrument	Test point	Adjustment part	
SUB COLOR /	Signal	TP-R	[1.PICTURE/SOUND]	
SUB TINT /	generator	[R CRT PWB]	S01 : COLOR	
B-Y GAIN		TP-B	S02 : TINT	
adjustment (2)	Oscilloscope	[B CRT PWB]	S07 : B-Y	
		TP-E (GND)		
	Remote control unit			

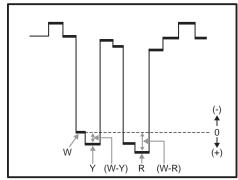


Fig.1

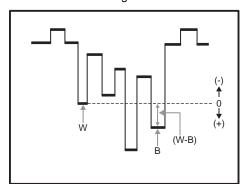


Fig.2

Setting item	Setting value A [V]		Setting value B [V]		Setting value C [V]	Setting value D [V]
	STAN	DARD	THE	ATER	STANDARD	THEATER
Signal	S01 (W-R)	S02 (W-Y)	S01 (W-R)	S02 (W-Y)	S07 (W-B)	S07 (W-B)
NTSC	+39	+12	+28	+8	+26	+19
480i	+19	+10	+7	0	-6	-1
480p	+21	+14	+10	+3	-16	-6
1080i	+19	+7	+8	+3	-3	-8

Table

Description [Method of adjustment with measuring instrument]

- (1) Receive NTSC color bar signal.
- (2) Select STANDARD mode with [VIDEO STATUS] key.
- (3) Connect the oscilloscope to TP-R on the R CRT SOCKET PWB.
- (4) Select 1.PICTURE/SOUND from SERVICE MENU.
- (5) Select < S01 > (COLOR) or < S02 > (TINT).
- (6) Adjust < S01 > and < S02 > to be following setting value A[V]. (Refer to the table)
- (7) Press [MUTING] key and memorize the set values.
- (8) Select THEATER mode with [VIDEO STATUS] key.
- (9) Adjust < S01 > and < S02 > to be following setting value B[V] same as above. (Refer to the table)
- (10) Press [MUTING] key and memorize the set values.
- (11) Select STANDARD mode with [VIDEO STATUS] key.
- (12) Connect the oscilloscope to TP-B on the B CRT SOCKET PWB.
- (13) Adjust < S07 > (B-Y) to be setting value C[V]. (Refer to the table)
- (14) Press [MUTING] key and memorize the set values.
- (15) Select THEATER mode with [VIDEO STATUS] key.
- (16) Adjust < S07 > to be setting value D[V]. (Refer to the table)
- (17) Press [MUTING] key and memorize the set values.
- (18) Confirm that LOW-LIGHT is not different after adjusting COLOR, TINT and B-Y GAIN. If it is green or magenta, to adjust LOW-LIGHT again. If adjust again, to set offset value again.
- (19) Press [MUTING] key and memorize the set values.
- (20) Input 480i component color bar from COMPONENT VIDEO terminal.
- (21) Repeat steps 2 ~ 19 above.
- (22) Input 480p component color bar from COMPONENT VIDEO terminal.
- (23) Repeat steps 2 ~ 19 above.
- (24) Input 1080i component color bar from COMPONENT VIDEO terminal.
- (25) Repeat steps 2 ~ 19 above.

4.7.7 MTS ADJUSTMENT

Item	Measuring instrument	Test point	Adjustmer	nt part	Description
MTS INPUT LEVEL check	Remote control unit		[1.PICTURE/S A01 : IN LEVE	-	(1) Select 1.PICTURE / SOUND from SERVICE MENU.(2) Select < A01 > (IN LEVEL).(3) Verify that< A01 > is set at its initial setting value.
	TV audio multiplex signal generator Oscilloscope Remote control unit	AUDIO OUT L output R output	[1.PICTURE/S A02: LOW SE A03 : HI SEP.	P	 (1) Input stereo L signal (300Hz) from the TV audio multiplex signal generator to the antenna terminal. (2) Connect an oscilloscope to L OUTPUT pin of the AUDIO OUT, and display one cycle portion of the 300Hz signal. (3) Change the connection of the oscilloscope to R OUTPUT pin of the AUDIO OUT, and enlarge the voltage axis. (4) Select < A02 > (LOW SEP.). (5) Set the initial setting value of < A02 >. (6) Adjust < A02 > so that the stroke element of the 300Hz signal will become minimum. (7) Change the signal to 3kHz, and similarly adjust
1 cycle	Э	→ Minimum	s portion		< A03 > (HI SEP.).

4.8 HOW TO CHECK THE HIGH VOLTAGE HOLD DOWN CIRCUIT

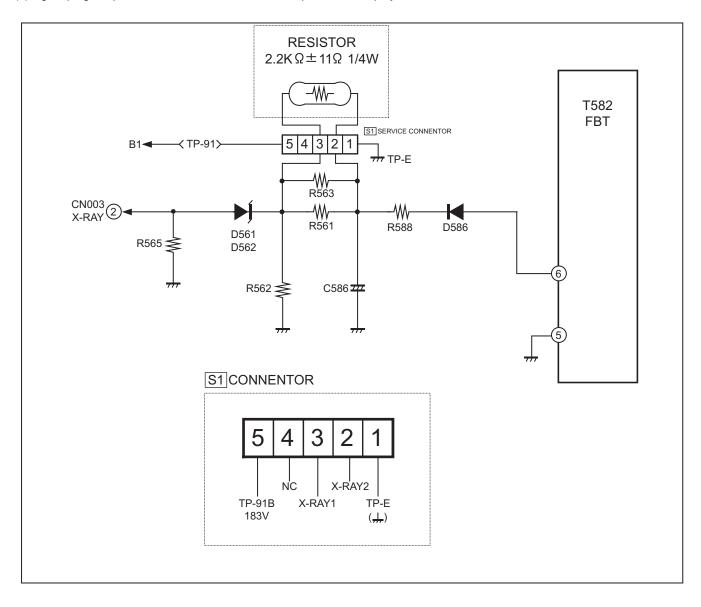
4.8.1 HIGH VOLTAGE HOLD DOWN CIRCUIT

After repairing the high voltage hold down circuit.

This circuit shall be checked to operate correctly.

4.8.2 CHECKING OF THE HIGH VOLTAGE HOLD DOWN CIRCUIT

- (1) Turn the power switch ON.
- (2) As shown in figure bellow, set the resistor (between S1 connector 2 & 3).
- (3) Make sure that the screen picture disappears (no raster).
- (4) Temporarily unplug the power cord.
- (5) Remove the resistor (between S1 connector 2 & 3).
- (6) Again plug the power cord, make sure that normal pictures is displayed on the screen.



SECTION 5 TROUBLESHOOTING

5.1 SELF-DIAGNOSIS FUNCTIONS

- This model has self-check functions that inform of the failure of the TV by detecting abnormality.
- · Operational state is always monitored and the identified is memorized on the record.

Therefore, diagnosis may be prevented against expectations if "NG" are indicated in many items. When recurrence of symptoms can be predicted, erase (reset) the history of failure and allow the unit to again record the results of diagnosis.

5.1.1 HOW TO ENTER THE SELF-DIAGNOSIS MODE

- (1) Set the < SLEEP TIMER 30MIN > with [SLEEP TIMER] key. (Fig.1)
- (2) During the < SLEEP TIMER 30MIN > display, press [DISPLAY] key and [VIDEO STATUS] key at the same time.
- (3) Then < TEST MODE > screen is displayed. (Fig.2)
- (4) Press [4] key then < SELF-CHECK > screen is appear. (Fig.3)

5.1.2 HOW TO EXIT FROM THE SELF-DIAGNOSIS MODE

With initialization

By using the remote control unit, turn the power off. At this time, the failure record is cleared.

With not initialization

- Take off the AC plug from the wall outlet. At this time, the failure record is not cleared.
- (2) Press the [BACK] key the SELF-CHECK screen return to TEST MODE screen.

5.1.3 EXPLANATION FOR ACTIVATION OF SELF-DIAGNOSIS FUNCTIONS

- The latest failure is stored on the record at the end.
 The failure record for each check item is counted to the number of 9 at the maximum, When more than 9 failures are stored on the record, the counter remains stopped at 9.
- · SYNC is neither counted nor stored in memory.
- Because of the timing of Vcc start-up and shut-down of the IC connecting to the I²C bus during which the power is turned on and off, the operation may be interpreted as an error.
 In order to avoid the misinterpretation, the self-check functions should be started at about 3 seconds after the power is turned on.

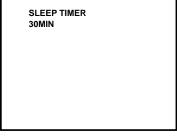


Fig.1

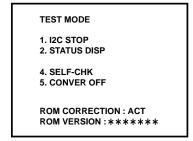


Fig.2

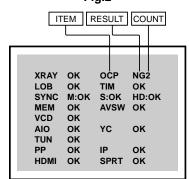


Fig.3 SELF-CHECK SCREEN

5.1.4 DIAGNOSIS ITEM

Indication	Check item	Details of detection	Method of detection
XRAY	Not used (display only)		
OCP	B1 over-current protection	An B1 over-current is detected. Q971 : POWER & DEF PWB	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.
LOB	Low B short protection / Cooling fan lock protection	Operation of low B short protection circuit. Q1961(5V), Q1962(9V): MAIN PWB IC9371(5V): SUB POWER PWB COOLING FAN: CONVERGENCE OUT PWB	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.

Indication	Check item	Details of detection	Method of detection
TIM	Timer	The AC power frequency is changed as follows : 50Hz → 60Hz 60Hz → 50Hz IC1701(MICOM) : 17pin	Periodically check the power frequency by counting the AC pulse and monitor whether or not the frequency is changed except for the time immediately after resetting.
SYNC	Presence or absence of synchronized signal	Presence of synchronized signal. HD: Component video signal M: NTSC main signal S: NTSC sub signal IC1211(TA1318N): MAIN PWB IC1301(AN15394A): MI-COM & DIST MODULE PWB	When entering the self-check mode, "OK" is shown. While running the mode with picture signal, if the synchronized signal is disappeared, "NG" is shown.
MEM	Memory (EEP-ROM)	ACK is returned when I ² C traffic is carried out. IC1703(MEMORY) : MI-COM & DIST MODULE PWB	The state is monitored every time when I2C traffic is carried out. Then the state is counted as a failure if ACK is not returned.
AVSW	AV switch	Ditto IC1301(AN15852A) and IC1501(CXA2069Q) : MAIN PWB	Ditto
VCD	Video / chroma process (RGB process)	Ditto IC1301(AN15394A) : MI-COM & DIST MODULE PWB	Ditto
AIO	Audio process (MTS decode / audio control)	Ditto IC0201(CXA2134Q-X) : RECEIVER PWB	Ditto
YC	3D YC separation	Ditto IC3001(MN82832) : MI-COM & DIST MODULE PWB	Ditto
TUN	RF tuner	Ditto TU0101 : RECEIVER PWB	Ditto
PP	Picture & Picture (Multi-picture)	Ditto IC101(TMS57128GJG) : MI-COM & DIST MODULE PWB	Ditto
IP	DIST process	Ditto IC201(JCC5054) : MI-COM & DIST MODULE PWB	Ditto
HDMI	DVI (Digital input) process	Ditto IC001(SII9993) : DIGITAL INPUT MODULE PWB	Ditto
SPRT	Split protection for upper unit and lower unit	CN00Z (Convergence sensor)	At about 3 seconds after the power is turned on, the self-check function starts. If NG is detected for 200ms, the power is turned off automatically.

5.1.5 SELF-CHECK DISPLAY LED

The self-check results are shown on the following LED display. Method of indication when the raster is not displayed.

Each failure is shown by turning POWER LED on and off at specified intervals.

• For B1 over-current protection, low B short protection and split protection, the power of the TV is turned off if NG is detected. Immediately after the power is turned off, POWER LED will be turning on and off. When the power is turned off, you cannot turn the power on again until the AC plug is taken out and put in again.

Item	POWER LED ON / OFF intervals	
B1 over-current protection	Turning on and off 1-second intervals	
Low B short protection	Turning on and off 2-second intervals	
Split protection	Turning on and off 3-second intervals	

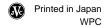
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PARTS LIST

CAUTION

- The parts identified by the △ symbol are important for the safety . Whenever replacing these parts, be sure to use specified ones to secure the safety.
- The parts not indicated in this Parts List and those which are filled with lines --- in the Parts No. columns will not be supplied.
- P.W. BOARD Ass'y will not be supplied, but those which are filled with the Parts No. in the Parts No. columns will be supplied.

ABBREVIATIONS OF RESISTORS, CAPACITORS AND TOLERANCES

	RESISTORS		CAPACITORS
CR	Carbon Resistor	C CAP.	Ceramic Capacitor
FR	Fusible Resistor	E CAP.	Electrolytic Capacitor
PR	Plate Resistor	M CAP.	Mylar Capacitor
VR	Variable Resistor	CH CAP.	Chip Capacitor
HV R	High Voltage Resistor	HV CAP.	High Voltage Capacitor
MF R	Metal Film Resistor	MF CAP.	Metalized Film Capacitor
MG R	Metal Glazed Resistor	MM CAP.	Metalized Mylar Capacitor
MP R	Metal Plate Resistor	MP CAP.	Metalized Polystyrol Capacitor
OM R	Metal Oxide Film Resistor	PP CAP.	Polypropylene Capacitor
CMF R	Coating Metal Film Resistor	PS CAP.	Polystyrol Capacitor
UNF R	Non-Flammable Resistor	TF CAP.	Thin Film Capacitor
CH V R	Chip Variable Resistor	MPP CAP.	Metalized Polypropylene Capacitor
CH MG R	Chip Metal Glazed Resistor	TAN. CAP.	Tantalum Capacitor
COMP. R	Composition Resistor	CH C CAP.	Chip Ceramic Capacitor
LPTC R	Linear Positive Temperature Coefficient Resistor	BP E CAP.	Bi-Polar Electrolytic Capacitor
		CH AL E CAP.	Chip Aluminum Electrolytic Capacitor
		CH AL BP CAP.	Chip Aluminum Bi-Polar Capacitor
		CH TAN. E CAP.	Chip Tantalum Electrolytic Capacitor
		CH AL BP E CAP.	Chip Tantalum Bi-Polar Electrolytic Capacitor

	RESISTORS								
F	G	J	К	М	N	R	Н	Z	Р
±1%	±2%	±5%	±10%	±20%	±30%	+30% -10%	+50% -10%	+80% -20%	+100% -0%

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FRONT CONTROL P.W. BOARD ASS'Y(SSB0L077A-M2)	
FRONT RELAY P.W. BOARD ASS'Y (SSB0L268-M2)	
DIGITAL INPUT MODULE P.W. BOARD ASS'Y (65WP94CP-S)	
DIGITAL CONVERGENCE MODULE P.W. BOARD ASS'Y (SSB0K078A-M2)	
MI-COM & DIST MODULE P.W. BOARD ASS'Y (SSB0D080A-M2)	
ATSC TUNER UNIT (QAU0309-001)	
REMOTE CONTROL UNIT PARTS LIST (RM-C12G-1H)	
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PACKING PARTS LIST	3-22

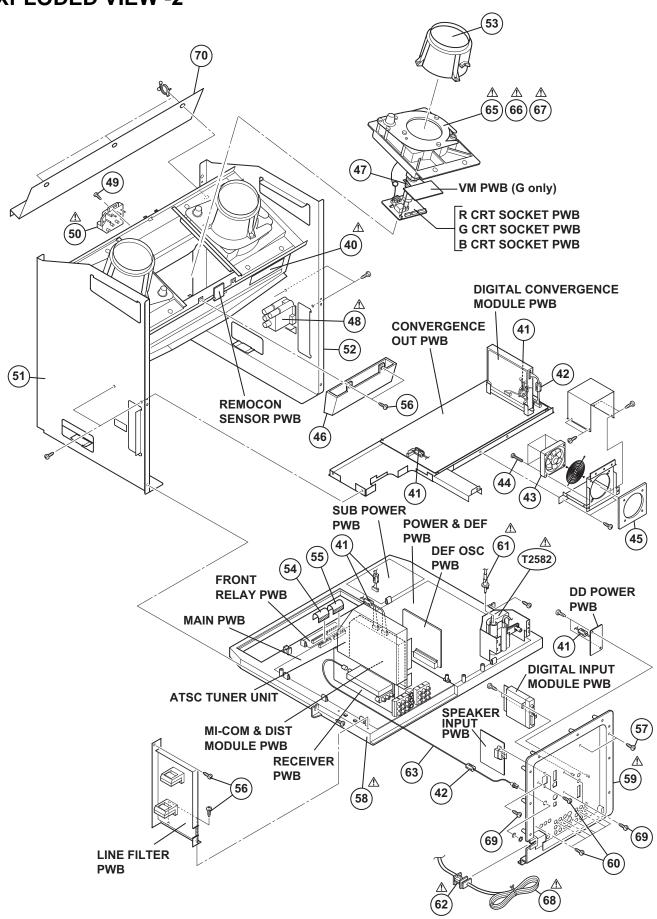
USING P.W. BOARD & REMOTE CONTROL UNIT

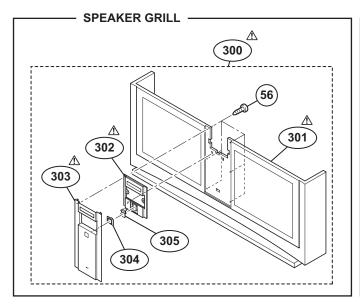
P.W.B ASS'Y	AV-65WP94/HA
MAIN P.W.B	SSB-1079A-M2
POWER & DEF P.W.B	SSB-2079A-M2
R CRT SOCKET P.W.B	SSB-3177A-M2
G CRT SOCKET P.W.B	SSB-3277A-M2
B CRT SOCKET P.W.B	SSB-3377A-M2
CONVERGENCE OUT P.W.B	SSB-5079A-M2
VM P.W.B	SSB-7277A-M2
REMOCON SENSOR P.W.B	SSB-8068A-M2
LINE FILTER P.W.B	SSB-9079A-M2
SUB POWER P.W.B	SSB-9379A-M2
DD POWER P.W.B	SSB-9479A-M2
SPEAKER INPUT P.W.B	SSB0A079A-M2
DEF OSC P.W.B	SSB0H077A-M2
RECEIVER P.W.B	SSB0R379A-M2
FRONT CONTROL P.W.B	SSB0L077A-M2
FRONT RELAY P.W.B	SSB0L268A-M2
DIGITAL INPUT MODULE P.W.B	65WP94CP-S
DIGITAL CONVERGENCE MODULE P.W.B	SSB0K078A-M2
MI-COM & DIST MODULE P.W.B	SSB0D080A-M2
ATSC TUNER UNIT	QAU0309-001
REMOTE CONTROL UNIT	RM-C12G-1H

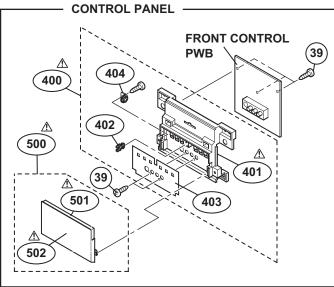
EXPLODED VIEW PARTS LIST -1

Φ	Ref.No.	Part No.	Part Name	Description	Local
<u>^</u>	1 2 3 4 5 6 7	LC32173-001A-A LC11508-001D-A LC21219-002A-A QYSBSF4012Z LC21217-001A-A LC21218-001B-A	65" GLASS MIRROR BACK COVER BACK BOARD UP TAP SCREW MIRROR HOL TB MIRROR HOL LR	4mm x 12mm(x13) TOP LEFT	
Δ	7 8 9 11 12 13 14 15 16 17 18	LC21218-002B-A LC21217-002A-A QYSBSAG4018M LC32412-001A-C QYNSS3000P LC32322-001B-A QYSBSF3012M CM35757-055-A LC41237-001A QYSBSFG4016M QYSBSFG4016M QYSBSFG4016M QYSBSFG4012Z	MIRROR HOL LR MIRROR HOL TB TAP SCREW JVC MARK PUSH NUT POWER KNOB TAP SCREW STICK SHEET RUBBER CATCH TAP SCREW TAP SCREW TAP SCREW TAP SCREW	RIGHT BOTTOM M4 x 18mm(x2) M3 3.0mm x 12mm(x2) (x2) (x2) 4.0mm x 16mm(x10) 4.0mm x 16mm(x4) 4mm x 12mm(x2)	
Δ	20 21 22 23	QYSBSAG4018M LC32192-001A-A LC20981-003A-A QYSBSAG4018M	TAP SCREW CONNECTOR COVER SHADING BOARD TAP SCREW	M4 x 18mm(x2) ´ M4 x 18mm(x4)	
Δ	24 25 26 27 28	QYSDSA4015Z QYSBSF4012Z LC21407-001A-A LC32439-001B-A	TAP SCREW TAP SCREW BACK BOARD LOW FRONT BOARD	M4 x 15mm(x2) 4mm x 12mm(x2)	
<u>A</u>	28 29 30 31 32	QAS0134-001 QAS0133-001 QYSBSA4012M LC32193-001A-A LC41574-001A	SPEAKER SPEAKER TAP SCREW BC FITTING LABEL	SP01-SP02(x2) SP03-SP04(x2) M4 x 12mm(x12) (x2) (x2)	
⚠	33 34 35 36 37 38	LC31139-001A-A QYSBSAG4018M QYSBSFG4020M QYSBSAG4018M QYSBSFG4016M QYSPSPD4020Z	RATING LABEL TAP SCREW TAP SCREW TAP SCREW TAP SCREW SCREW	M4 x 18mm(x4) M4 x 20mm(x4) M4 x 18mm(x4) 4.0mm x 16mm(x6) M4 x 20mm(x8)	
<u>^</u>	101 102 103 104 105 106	LC11507-001D-A 65SC-002A LC32188-002A-A LC32188-001C-A QSD0008-001 QYSBSFG4016M	FRONT PANEL SCREEN ASSY SENSOR HOLDER SENSOR HOLDER PHOTO SENSOR TAP SCREW	(SERVICE) (x4) (x4) (x4) 4.0mm x 16mm(x4)	
⚠	200 201	LC11521-001A-A CM36396-00B-A	BODY CASTER	Inc.No.201 (x4)	

EXPLODED VIEW -2



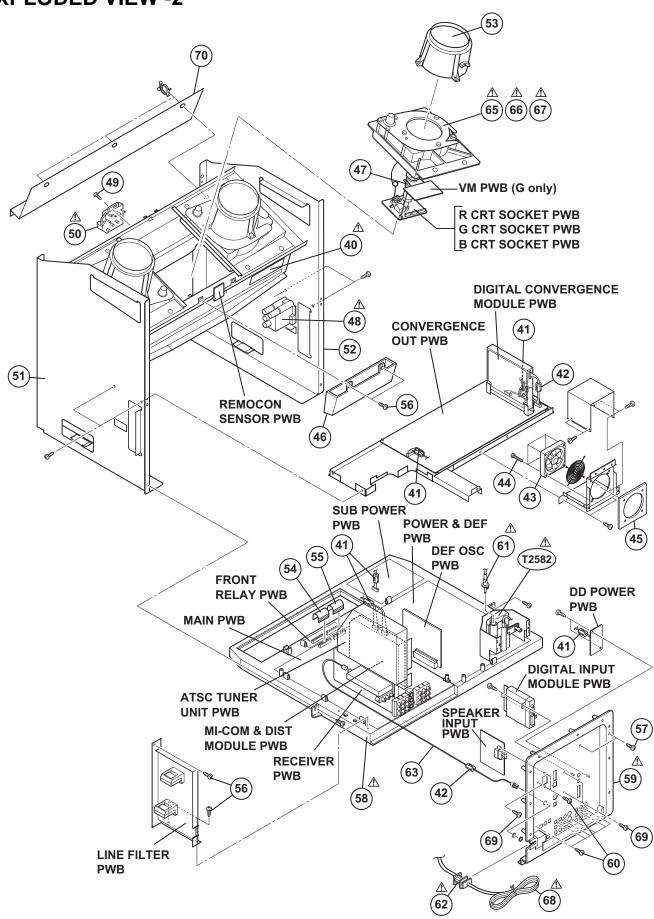




EXPLODED VIEW PARTS LIST -2

Φ	Ref.No.	Part No.	Part Name	Description	Local
Δ	T2582 39 40 41	QQH0165-001 QYSBSF3012Z GQ30034-001B-A QQR0491-001	FB TRANSF TAP SCREW WARNING LABEL FERTITE CORE	3.0mm x 12mm(x5) (GRAY)(x5)	
	42 43 44 45 46	QQR0490-001 QAR0300-001 QYSPSPD4035Z LC32420-001A-A CM22765-001-A	NOISE FILTER COOLING FAN SCREW FAN SPONGE COOLANT PAN	M4 x 35mm(x4)	
Δ	47 48	QAL0510-001 QAE0005-001	PC MAGNET DIVIDER	(x3)	
Δ	49 50 51 52	QYSBSBG3008Z QAE0006-001 LC20977-002B-A LC20977-001B-A	TAP SCREW FOCUS PACK UNIT BKT R UNIT BKT L	3.0mm x 8mm	
	53 54 55	LC31736-001A-A QUQ212-1708CG QUQ212-1306CF	LENZ D260 FFC WIRE FFC WIRE	(x3)	
<u>^</u>	56 57 58 59	QYSBSF4012Z QYSBSFG4016M LC11249-001E-A LC11511-005B-A	TAP SCREW TAP SCREW CHASSIS BASE AV BOARD	4mm x 12mm(x11) 4.0mm x 16mm(x3)	
<u>↑</u>	60 61 62 63 65 66 67	QYSBSF3012M QNZ0563-001 LC20106-001D-A QAM0493-001 R-CRTHHSA-M2 G-CRTHHSA-M2 B-CRTHHSA-M2	TAP SCREW ANODE WIRE ASSY POWER CORD CLAMP F CABLE R CRT HH SA G CRT HH SA B CRT HH SA	3.0mm x 12mm(x8)	
⚠	68 69 70	QMPD200-200-JC QYSBSFG4016M LC32292-001A-A	POWER CORD(US/CA) TAP SCREW PROTECT PAD	2m BLACK 4.0mm x 16mm(x3)	
<u>^</u>	300 301 302 303 304 305	LC32231-003A-A LC11509-001C-A LC11645-001A-A LC21351-001A-A LC32318-002A-A LC32319-001A-A	SP GRILL ASSY SPEAKER GRILL PANEL BASE CENTER PLATE CRYSTAL WINDOW GUIDE LENS	Inc.No.301-305	
<u>^</u>	400 401 402 403 404	LC32397-001C-A LC11608-001C-A PU60109 LC32373-001A-A QZW0055-003	CONTROL ASSY CONTROL BASE CATCHER OPERATION SHEET DAMPER	Inc.No.401-404	
<u>^</u>	500 501 502	LC32499-002A-A LC21309-001A-A LC32317-002A-A	DOOR ASSY DOOR BASE DOOR PLATE	Inc.No.501-502	

EXPLODED VIEW -2



PRINTED WIRING BOARD PARTS LIST

MAIN P	.W. BOARD AS	SS'Y (SSB-1079A-M2)	Ref No.	Part No.	Part Name	Description Loca
ÆRef No.	Part No.	Part Name Description Local	D1802	MA111-X	SI DIODE	
104044	TA4040N	16	D1803	MA111-X	SI DIODE	
IC1211 IC1212	TA1318N SN74AHC2G08T-X	IC IC	D1891 D1892	MA8082/M/-X MA8082/M/-X	Z DIODE Z DIODE	
IC1301	AN15852A	IC	D1893	MA8051/M/-X	Z DIODE	
IC1501	CXA2069Q	IC	D1894	MA8051/M/-X	Z DIODE	
IC1502 IC1511	M62320FP-X PQ033RD01SZ	IC IC	D1947 D1948	EC31QS04-X EC31QS04-X	SB DIODE SB DIODE	
IC1641	NJM2150AM-X	IC	D1949	FC31QS04-X	SB DIODE	
▲IC1661	AN5277	IC	D1962	MA3030/H/-X	Z DIODE	
IC1703	AT24C32-56WP94	IC	D1964	MA111-X	SI DIODE	
IC1801 IC1941	TA48M033F-X PQ1CG21H2FZ	IC IC	D1965 D1967	MA111-X PTZ6.8B-X	SI DIODE Z DIODE	
IC1942 IC1943	SI-8050JD-W	IC	D1968	PTZ3.9B-X	CHIP ZENER DIODE	
IC1943	PQ1CY1032Z-W	IC	D1969	PTZ11B-X	Z DIODE	
IC1981 IC1991	PQ070XH02Z-W PQ12RD11	IC IC	D1981 D1991	MA111-X MA111-X	SI DIODE SI DIODE	
IC1993	MM1565AF-X	IC	D1993	MA111-X	SI DIODE	
IC3001	MN82832	IC	D2101	MA8100/M/-X	Z DIODE	
IC3002 IC6001	R1170H331B-X NJM2701M-X	IC IC	D2121 D2201	MA8100/M/-X MA8100/M/-X	Z DIODE Z DIODE	
100001	NJIVIZ7 O TIVI-X	IC	D2201	MA8100/M/-X	Z DIODE Z DIODE	
Q0701	2SK2090-X	CHIP FET	D2205	MA8100/M/-X	Z DIODE	
Q0702 Q1232	2SK2090-X 2SA1530A/QR/-X	CHIP FET SI TRANSISTOR	D2206	MA8100/M/-X	Z DIODE Z DIODE	
Q1232 Q1301	2SC3837K/NP/-X	TRANSISTOR	D2209 D2210	MA8100/M/-X MA8100/M/-X	Z DIODE Z DIODE	
Q1302	2SC3837K/NP/-X	TRANSISTOR	D2212	MA8100/M/-X	Z DIODE	
Q1303	2SC3837K/NP/-X	TRANSISTOR	D2213	MA8100/M/-X	Z DIODE	
Q1401 Q1531	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR	D2215 D2216	MA8100/M/-X MA8100/M/-X	Z DIODE Z DIODE	
Q1668	UN2213-X	DIGI TRANSISTOR	D2217	MA8100/M/-X	Z DIODE	
Q1669	2SC3928A/QR/-X	TRANSISTOR	D2218	MA8100/M/-X	Z DIODE	
Q1672 Q1673	2SC3928A/QR/-X 2SA1530A/QR/-X	TRANSISTOR SI TRANSISTOR	D2219 D2251	MA8100/M/-X MA8100/M/-X	Z DIODE Z DIODE	
Q1712	2SA1530A/QR/-X	SI TRANSISTOR	D2252	MA8100/M/-X	Z DIODE	
Q1713	2SC2785/JH/-T	SI TRANSISTOR	D2253	MA8100/M/-X	Z DIODE	
Q1961 Q1962	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR	D2258 D2259	MA111-X MA111-X	SI DIODE SI DIODE	
Q1964	2SC3928A/QR/-X	TRANSISTOR	D2401	MA8100/M/-X	Z DIODE	
Q1965	UN2213-X	DIGI TRANSISTOR	D2402	MA8100/M/-X	Z DIODE	
Q1981 Q1984	2SC4682-T 2SC4682-T	TRANSISTOR TRANSISTOR	D2403 D2404	MA8100/M/-X MA8100/M/-X	Z DIODE Z DIODE	
Q2251	KTA1267/YG/-T	TRANSISTOR	D2406	MA8100/M/-X	Z DIODE	
Q2252 Q2253	KTA1267/YG/-T	TRANSISTOR	D2421	MA8100/M/-X	Z DIODE	
Q2253 Q2254	KTA1267/YG/-T UN2226-X	TRANSISTOR DIGI TRANSISTOR	D2422	MA8100/M/-X	Z DIODE	
Q2255	UN2226-X	DIGI TRANSISTOR	C1111	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
Q2256 Q2260	UN2110-X 2SA1530A/QR/-X	DIGI TRANSISTOR SI TRANSISTOR	C1112 C1113	NCB31HK-103X NCB31HK-103X	C CAPACITOR C CAPACITOR	0.01uF 50V K 0.01uF 50V K
O3001	2SC3928A/QR/-X	TRANSISTOR	C1213	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q3002 Q3003	2SC3928A/QR/-X	TRANSISTOR	C1214	QETN1HM-225Z	E CAPACITOR	2.2uF 50V M
Q3003 Q3004	2SA1530A/QR/-X 2SC3928A/QR/-X	SI TRANSISTOR TRANSISTOR	C1215 C1216	QFLC1HJ-103Z NCF11CZ-475X	M CAPACITOR C CAPACITOR	0.01uF 50V J 4.7uF 16V Z
Q3005	2SC3928A/QR/-X	TRANSISTOR	C1218	NCB21CK-105X	C CAPACITOR	1uF 16V K
Q3006	2SA1530A/QR/-X	SI TRANSISTOR	C1219	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
Q3007 Q3501	2SA1530A/QR/-X 2SA1530A/QR/-X	SI TRANSISTOR SI TRANSISTOR	C1233 C1301	NDC31HJ-180X QETN1CM-107Z	C CAPACITOR E CAPACITOR	18pF 50V J 100uF 16V M
Q3502	2SC3928A/QR/-X	TRANSISTOR	C1302	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q3505	2SA1530A/QR/-X	SI TRANSISTOR	C1303	QETN1CM-107Z	E CAPACITOR	100uF 16V M
Q3506 Q3509	2SC3928A/QR/-X 2SA1530A/QR/-X	TRANSISTOR SI TRANSISTOR	C1304 C1305	NCB31CK-104X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.1uF 16V K 0.1uF 16V K
Q3510	2SC3928A/QR/-X	TRANSISTOR	C1306	NCB31CK-104X	C CAPACITOR	0.1uF 16V K
Q6001	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR	C1307	QETN1CM-106Z	E CAPACITOR	10uF 16V M
Q6002	2503920A/QR/-A	TRANSISTOR	C1308 C1309	NCB31HK-103X NCB31HK-103X	C CAPACITOR C CAPACITOR	0.01uF 50V K 0.01uF 50V K
D1093	MA8082/M/-X	Z DIODE	C1311	NCB21CK-105X	C CAPACITOR	1uF 16V K
D1301	MA8100/M/-X MA8100/M/-X	Z DIODE Z DIODE	C1312	NCB21CK-105X	C CAPACITOR	1uF 16V K
D1302 D1401	MA111-X	SI DIODE	C1313 C1321	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 16V K 1uF 16V K
D1402	UDZS5.1B-X	Z DIODE	C1322	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1403 D1595	MA111-X MA8100/M/-X	SI DIODE Z DIODE	C1323	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1595 D1596	MA8100/M/-X	Z DIODE	C1324 C1325	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 16V K 1uF 16V K
D1667	MA111-X	SI DIODE	C1326	NDC31HJ-101X	C CAPACITOR	100pF 50V J
D1668	MA111-X	SI DIODE	C1327	NDC31HJ-101X	C CAPACITOR	100pF 50V J
D1669 D1675	MA111-X MA8330/L/-X	SI DIODE CHIP ZENER DIODE	C1328 C1329	NDC31HJ-101X NDC31HJ-100X	C CAPACITOR C CAPACITOR	100pF 50V J 10pF 50V J
D1676	MA8330/L/-X	CHIP ZENER DIODE	C1331	NCB21CK-105X	C CAPACITOR	1uF 16V K
D1702	MA111-X	SI DIODE	C1332	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1703 D1704	MA111-X MA8100/M/-X	SI DIODE Z DIODE	C1333 C1341	NCB31HK-103X NCB21CK-105X	C CAPACITOR C CAPACITOR	0.01uF 50V K 1uF 16V K
D1705	MA8100/M/-X	Z DIODE	C1342	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
D1712 D1801	MA111-X 1SR35-400A-T2	SI DIODE SI DIODE	C1343	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
וטסוע	101100-400A-12	OI DIODE	C1351	NCB31HK-103X	C CAPACITOR	0.01uF 50V K

⚠Ref No.	Part No.	Part Name	Description Local	⚠Ref No.	Part No.	Part Name	Description Local
C1352	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1992	QETN1CM-477Z	E CAPACITOR	470uF 16V M
C1353 C1354	NCB31HK-103X NCB31HK-103X	C CAPACITOR C CAPACITOR	0.01uF 50V K 0.01uF 50V K	C1994 C1995	NCB11CK-225X NCB11CK-225X	C CAPACITOR C CAPACITOR	2.2uF 16V K 2.2uF 16V K
C1355	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C1996	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C1371 C1372	QETN1CM-336Z NCB31CK-104X	E CAPACITOR C CAPACITOR	33uF 16V M 0.1uF 16V K	C2102 C2103	NCB31HK-103X QETN1HM-106Z	C CAPACITOR E CAPACITOR	0.01uF 50V K 10uF 50V M
C1381	QETN1CM-336Z	E CAPACITOR	33uF 16V M	C2104	QETN1HM-106Z	E CAPACITOR	10uF 50V M
C1382 C1391	NCB31CK-104X QETN1CM-336Z	C CAPACITOR E CAPACITOR	0.1uF 16V K 33uF 16V M	C2105 C2106	NCB11CK-225X NCB11CK-225X	C CAPACITOR C CAPACITOR	2.2uF 16V K 2.2uF 16V K
C1392	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C2123	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1403 C1404	QETN1AM-108Z QETN1AM-108Z	E CAPACITOR E CAPACITOR	1000uF 10V M 1000uF 10V M	C2124 C2126	QETN1HM-106Z QETN1HM-106Z	E CAPACITOR E CAPACITOR	10uF 50V M 10uF 50V M
C1405	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	C2127	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C1406 C1409	QETN1AM-108Z QETN1HM-106Z	E CAPACITOR E CAPACITOR	1000uF 10V M 10uF 50V M	C2128 C2144	NCB11CK-225X QETN1HM-106Z	C CAPACITOR E CAPACITOR	2.2uF 16V K 10uF 50V M
C1410	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C2145	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C1411 C1412	NCB31CK-104X QETN1CM-107Z	C CAPACITOR E CAPACITOR	0.1uF 16V K 100uF 16V M	C2146 C2251	NCB11CK-225X QETN1HM-105Z	C CAPACITOR E CAPACITOR	2.2uF 16V K 1uF 50V M
C1415	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	C2252	QETN1HM-105Z	E CAPACITOR	1uF 50V M
C1416 C1417	QETN1EM-476Z NCB31HK-103X	E CAPACITOR C CAPACITOR	47uF 25V M 0.01uF 50V K	C2253 C2254	QETN1AM-108Z NCB11CK-225X	E CAPACITOR C CAPACITOR	1000uF 10V M 2.2uF 16V K
C1418	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C2255	NCB11CK-225X	C CAPACITOR	2.2uF 16V K
C1421 C1423	QETN0JM-108Z QETN1HM-476Z	E CAPACITOR E CAPACITOR	1000uF 6.3V M 47uF 50V M	C2256 C2257 C2261	NCB21CK-105X NCB11CK-225X	C CAPACITOR C CAPACITOR	1uF 16V K 2.2uF 16V K
C1442	QETN1EM-476Z	E CAPACITOR C CAPACITOR	47uF 25V M 0.1uF 16V Z	C2261 C2262	NCB11CK-225X	C CAPACITOR E CAPACITOR	2.2uF 16V K 1000uF 10V M
C1501 C1502	NCF31CZ-104X QETN1EM-476Z	E CAPACITOR	47uF 25V M	C2263	QETN1AM-108Z QETN1EM-476Z	E CAPACITOR E CAPACITOR	47uF 25V M
C1503 C1504	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 16V K 1uF 16V K	C2302 C2303	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 16V K 1uF 16V K
C1505	QENC1HM-475Z	BP E CAPACITOR	4.7uF 50V M	C2322	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1510 C1519	QENC1CM-106Z QETN1EM-476Z	BP E CAPACITOR E CAPACITOR	10uF 16V M 47uF 25V M	C2323	NCB21CK-105X NCB21CK-105X	C CAPACITOR C CAPACITOR	1uF 16V K 1uF 16V K
C1531	NCB31CK-104X	C CAPACITOR	0.1uF 16V K	C2341 C2342	NCB21CK-105X	C CAPACITOR	1uF 16V K
C1532 C1539	QETN1HM-226Z QENC1HM-475Z	E CAPACITOR BP E CAPACITOR	22uF 50V M 4.7uF 50V M	C2343 C3001	NCB21CK-105X QENC1AM-336Z	C CAPACITOR BP E CAPACITOR	1uF 16V K 33uF 10V M
C1540	QETN1AM-107Z	E CAPACITOR	100uF 10V M	C3002	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C1579 C1641	QETN1EM-476Z QENC1HM-106Z	E CAPACITOR BP E CAPACITOR	47uF 25V M 10uF 50V M	C3003 C3004	NDC31HJ-121X NDC31HJ-150X	C CAPACITOR C CAPACITOR	120pF 50V J 15pF 50V J
C1642	NCB31CK-473X	C CAPACITOR	0.047uF 16V K	C3005	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z
C1643 C1645	NCB31CK-333X NCB31CK-104X	C CAPACITOR C CAPACITOR	0.033uF 16V K 0.1uF 16V K	C3006 C3007	NCF31CZ-104X NCB31AK-334X	C CAPACITOR C CAPACITOR	0.1uF 16V Z 0.33uF 10V K
C1646	QETN1EM-476Z	E CAPACITOR	47uF 25V M	C3008	NDC31HJ-151X	C CAPACITOR	150pF 50V J
C1647 C1648	QETN1HM-226Z QETN1HM-106Z	E CAPACITOR E CAPACITOR	22uF 50V M 10uF 50V M	C3009 C3010	NDC31HJ-121X NDC31HJ-150X	C CAPACITOR C CAPACITOR	120pF 50V J 15pF 50V J
C1651 C1652	QENC1HM-106Z NCB31CK-473X	BP E CAPACITOR C CAPACITOR	10uF 50V M 0.047uF 16V K	C3011 C3012	NCF11CZ-475X NCF31CZ-104X	C CAPACITOR C CAPACITOR	4.7uF 16V Z 0.1uF 16V Z
C1653	NCB31CK-473X	C CAPACITOR	0.047 dF 16V K 0.033 uF 16V K	C3013	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1663 C1665	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J	C3014 C3015	QETN1CM-107Z NCF31CZ-104X	E CAPACITOR C CAPACITOR	100uF 16V M 0.1uF 16V Z
C1667	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C3016	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1668 C1669	NDC31HJ-101X NCB21CK-105X	C CAPACITOR C CAPACITOR	100pF 50V J 1uF 16V K	C3017 C3018	QENC1HM-475Z NCF31CZ-104X	BP E CAPACITOR C CAPACITOR	4.7uF 50V M 0.1uF 16V Z
C1670	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C3019	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
C1671 ∆C1672	NDC31HJ-101X NCB21CK-105X	C CAPACITOR C CAPACITOR	100pF 50V J 1uF 16V K	C3020 C3021	NCB31HK-103X NCB31HK-103X	C CAPACITOR C CAPACITOR	0.01uF 50V K 0.01uF 50V K
C1673	QETN1HM-107Z	E CAPACITOR	100uF 50V M	C3022	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1674 C1675	QETM1HM-108 QFV21HJ-124Z	E CAPACITOR MF CAPACITOR	1000uF 50V M 0.12uF 50V J	C3023 C3024	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16V Z 0.1uF 16V Z
C1676	QFV21HJ-124Z QETN1EM-108Z	MF CAPACITOR	0.12uF 50V J	C3025 C3026	QETN1CM-106Z	E CAPACITOR	10uF 16V M 0.1uF 16V Z
C1677 C1678	QETN1EM-108Z	E CAPACITOR E CAPACITOR	1000uF 25V M 1000uF 25V M	C3026 C3027	NCF31CZ-104X NDC31HJ-7R0X	C CAPACITOR C CAPACITOR	7pF 50V J
C1679 C1680	QETN1HM-475Z QETN1HM-475Z	E CAPACITOR E CAPACITOR	4.7uF 50V M 4.7uF 50V M	C3028 C3029	NDC31HJ-7R0X NCF31CZ-104X	C CAPACITOR C CAPACITOR	7pF 50V J 0.1uF 16V Z
C1696	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C3030	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1697 C1702	QETN1EM-476Z NCB21CK-105X	E CAPACITOR C CAPACITOR	47uF 25V M 1uF 16V K	C3031 C3032	NCF31CZ-104X NDC31HJ-560X	C CAPACITOR C CAPACITOR	0.1uF 16V Z 56pF 50V J
C1712	QETN1HM-106Z	E CAPACITOR	10uF 50V M	C3033	NDC31HJ-330X	C CAPACITOR	33pF 50V J
C1802 C1803	QETN1HM-106Z QETN1EM-476Z	E CAPACITOR E CAPACITOR	10uF 50V M 47uF 25V M	C3034 C3035	NDC31HJ-560X NDC31HJ-330X	C CAPACITOR C CAPACITOR	56pF 50V J 33pF 50V J
C1941	QETN1VM-477Z	E CAPACITOR	470uF 35V M	C3036	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1942 C1944	QETN1CM-108Z QETN1VM-477Z	E CAPACITOR E CAPACITOR	1000uF 16V M 470uF 35V M	C3037 C3038	NCF31CZ-104X NCF31CZ-104X	C CAPACITOR C CAPACITOR	0.1uF 16V Z 0.1uF 16V Z
C1945	QEZ0256-128	E CAPACITOR	1200uF 10V M	C3039	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z
C1947 C1948	QETN1CM-477Z QETN1CM-477Z	E CAPACITOR E CAPACITOR	470uF 16V M 470uF 16V M	C3041 C3042	QETN1CM-106Z NCB31HK-472X	E CAPACITOR C CAPACITOR	10uF 16V M 4700pF 50V K
C1949	QETN0JM-108Z QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M 1000uF 6.3V M	C3044	NCB31HK-472X NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1950 C1951	QETNUJM-100Z QETN1VM-477Z	E CAPACITOR E CAPACITOR	470uF 35V M	C3045 C3046	NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V K 4700pF 50V K
C1952 C1953	QEZ0256-128 QETN0JM-228Z	E CAPACITOR E CAPACITOR	1200uF 10V M 2200uF 6.3V M	C3047 C3048	QETN1CM-106Z NCB31HK-472X	E CAPACITOR C CAPACITOR	10uF 16V M 4700pF 50V K
C1954	QETN0JM-108Z	E CAPACITOR	1000uF 6.3V M	C3049	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1955 C1961	NCB31EK-104X QETN1HM-105Z	C CAPACITOR E CAPACITOR	0.1uF 25V K 1uF 50V M	C3050 C3051	NCB31HK-472X NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V K 4700pF 50V K
C1981	QETN1CM-107Z	E CAPACITOR	100uF 16V M	C3052	NCB31HK-472X	C CAPACITOR	4700pF 50V K
C1984 C1985	QETN0JM-108Z QETN0JM-477Z	E CAPACITOR E CAPACITOR	1000uF 6.3V M 470uF 6.3V M	C3053 C3054	NCB31HK-472X NCB31HK-472X	C CAPACITOR C CAPACITOR	4700pF 50V K 4700pF 50V K
C1991	QETN1EM-107Z	E CAPACITOR	100uF 25V M	C3055	NCB31HK-472X	C CAPACITOR	4700pF 50V K

ΔRef No.	Part No.	Part Name	Description Local	ΔRef No.	Part No.	Part Name	Description Local
C3056	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R1347	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
C3057	QETN1CM-106Z	E CAPACITOR	10uF 16V M	R1372	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3058	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1374	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C3059	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1375	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3060	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1378	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3061	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1382	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3062	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1384	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C3063	QETN1HM-105Z	E CAPACITOR	1uF 50V M	R1385	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3064	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1392	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3065	QETN1CM-106Z	E CAPACITOR	10uF 16V M	R1394	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
C3066	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1395	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3067	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R1401	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3068	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1402	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3069	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R1407	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3070	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R1409	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3071	QETN1CM-476Z	E CAPACITOR	47uF 16V M	R1421	NRSA63J-683X	MG RESISTOR	68kΩ 1/16W J
C3072	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1422	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3077	NCB31AK-334X	C CAPACITOR	0.33uF 10V K	R1423	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J
C3078	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1501	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
C3079	NDC31HJ-470X	C CAPACITOR	47pF 50V J	R1502	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
C3080	QBTC1CK-106Z	TA E CAPACITOR	10uF 16V K	R1504	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
C3082	NDC31HJ-151X	C CAPACITOR	150pF 50V J	R1507	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
C3086	NCB31HK-152X	C CAPACITOR	1500pF 50V K	R1508	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
C3088	NDC31HJ-100X	C CAPACITOR	10pF 50V J	R1509	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
C3089	NDC31HJ-100X	C CAPACITOR	10pF 50V J	R1513	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C3090	NDC31HJ-100X	C CAPACITOR	10pF 50V J	R1514	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C3099	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R1516	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C3100	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R1517	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3501	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1518	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C3502	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R1519	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C3503	NDC31HJ-121X	C CAPACITOR	120pF 50V J	R1520	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3504	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R1521	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3506	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z 0.1uF 16V Z	R1522	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3507	NCF31CZ-104X	C CAPACITOR	100pF 50V J	R1523	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C3508	NDC31HJ-101X	C CAPACITOR		R1524	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3509	NDC31HJ-121X	C CAPACITOR	120pF 50V J	R1525	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C3510	NDC31HJ-150X	C CAPACITOR	15pF 50V J	R1526	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C3512	NCF11CZ-475X	C CAPACITOR	4.7uF 16V Z	R1527	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3513	NCF31CZ-104X	C CAPACITOR	0.1uF 16V Z	R1528	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C3514	NDC31HJ-101X	C CAPACITOR	100pF 50V J	R1529	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3515 C3516	NDC31HJ-121X	C CAPACITOR	120pF 50V J	R1530 R1533	NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J
C3518	NDC31HJ-150X NCF11CZ-475X	C CAPACITOR C CAPACITOR	15pF 50V J 4.7uF 16V Z	R1534	NRSA63J-221X NRSA63J-682X	MG RESISTOR	220Ω 1/16W J 6.8kΩ 1/16W J
C3519	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M	R1535	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C3520	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M	R1536	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C3521	QENC1CM-336Z	BP E CAPACITOR	33uF 16V M	R1537	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6001	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	R1538	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C6002	QENC1HM-106Z	BP E CAPACITOR	10uF 50V M	R1539	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
C6003	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1543	NRSA63J-100X	MG RESISTOR	10Ω 1/16W J
C6004	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1547	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6005	NCB31HK-472X	C CAPACITOR	4700pF 50V K	R1548	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6006	NCB31CK-273X	C CAPACITOR	0.027uF 16V K	R1549	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
C6007	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R1550	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
C6008	QETN1HM-105Z QETN1CM-107Z	E CAPACITOR E CAPACITOR	1uF 50V M 100uF 16V M	R1551	NRSA63J-0R0X NRSA63J-102X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 1kΩ 1/16W J
C6009 C6010	QETN1HM-106Z	E CAPACITOR E CAPACITOR	10uF 50V M	R1552 R1560	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R0511	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1562 R1563	NRSA63J-102X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 0Ω 1/16W J
R0606	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1571	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R0705	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1577	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R0706	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1578	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R0707	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1579	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
R1097	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R1582	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1121	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1611	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1125	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1612	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1127	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1613	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1128	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1614	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
R1132	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1615	NRSA63J-563X	MG RESISTOR	56kΩ 1/16W J
R1202	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1616	NRSA63J-153X	MG RESISTOR	15kΩ 1/16W J
R1203	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1619	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1218	NRSA63J-822X	MG RESISTOR	8.2kΩ 1/16W J	R1641	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1219	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J	R1642	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1220	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1643	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1221	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1646	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1226	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R1647	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1228	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R1649	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1229	NRSA63J-332X	MG RESISTOR	3.3kΩ 1/16W J	R1651	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J
R1230	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1652	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1231	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R1653	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1232	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1656	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1234	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1658	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1236	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	R1659	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J
R1240	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1661	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1301	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1663	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1302	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R1665	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J
R1303	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R1666	NRSA63J-682X	MG RESISTOR	6.8kΩ 1/16W J
R1337	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R1667	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J

Ref No.	Part No.	Part Name	Description Local	Ref No.	Part No.	Part Name	Description Local
R1668	NRSA63J-222X	MG RESISTOR	2.2kΩ 1/16W J	R2276	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1669 R1670	NRSA63J-682X NRSA63J-222X	MG RESISTOR MG RESISTOR	6.8kΩ 1/16W J 2.2kΩ 1/16W J	R2277 R2278	NRSA63J-102X NRSA63J-393X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 39kΩ 1/16W J
 ∆R1671	QRJ146J-2R2X	UNF C RESISTOR	2.2Ω 1/4W J	R2281	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
R1672 △NR1673	QRJ146J-2R2X QRK126J-102X	UNF C RESISTOR UNF C RESISTOR	2.2Ω 1/4W J 1kΩ 1/2W J	R2282 R2283	NRSA63J-470X NRSA63J-470X	MG RESISTOR MG RESISTOR	47Ω 1/16W J 47Ω 1/16W J
 ⚠R1674	QRK126J-102X	UNF C RESISTOR	1kΩ 1/2W J	R2284	NRSA63J-101X NRSA63J-333X	MG RESISTOR	100Ω 1/16W J
R1680 R1681	NRSA63J-822X NRSA63J-473X	MG RESISTOR MG RESISTOR	8.2kΩ 1/16W J 47kΩ 1/16W J	R2286 R2288	NRSA63J-333X NRSA63J-563X	MG RESISTOR MG RESISTOR	33kΩ 1/16W J 56kΩ 1/16W J
R1682	NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J	R2305	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1691 R1693	NRSA63J-104X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	100kΩ 1/16W J 0Ω 1/16W J	R2308 R2310	NRSA63J-750X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	75Ω 1/16W J 0Ω 1/16W J
R1701	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R2325	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1702	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	R2328	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J
R1703 R1712	NRSA63J-101X NRSA63J-273X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 27kΩ 1/16W J	R2330 R2463	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J
R1713	NRSA63J-123X	MG RESISTOR MG RESISTOR	12kΩ 1/16W J	R2464 R2465	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1714 R1715	NRSA63J-123X NRSA63J-333X	MG RESISTOR	12kΩ 1/16W J 33kΩ 1/16W J	R3001	NRSA63J-0R0X NRSA63J-123X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 12kΩ 1/16W J
R1891	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3002	NRSA63J-333X	MG RESISTOR	33kΩ 1/16W J
R1892 R1894	NRSA63J-221X NRSA63J-221X	MG RESISTOR MG RESISTOR	220Ω 1/16W J 220Ω 1/16W J	R3003 R3004	NRSA63J-101X NRSA63J-332X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 3.3kΩ 1/16W J
R1895	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J	R3005	NRSA63J-181X	MG RESISTOR	180Ω 1/16W J
R1896 R1897	NRSA63J-563X NRSA63J-563X	MG RESISTOR MG RESISTOR	56kΩ 1/16W J 56kΩ 1/16W J	R3006 R3007	NRSA63J-152X NRSA63J-102X	MG RESISTOR MG RESISTOR	1.5kΩ 1/16W J 1kΩ 1/16W J
R1942	NRSA63D-122X	MG RESISTOR	1.2kΩ 1/16W D	R3008	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1943 ∆ R1944	NRSA63D-123X QRK126J-220X	MG RESISTOR UNF C RESISTOR	12kΩ 1/16W D 22Ω 1/2W J	R3009 R3010	NRSA63D-102X NRSA63J-152X	MG RESISTOR MG RESISTOR	1kΩ 1/16W D 1.5kΩ 1/16W J
R1945	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R3011	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1946 R1949	NRSA63J-102X NRSA63D-122X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 1.2kΩ 1/16W D	R3012 R3013	NRSA63J-123X NRSA63J-333X	MG RESISTOR MG RESISTOR	12kΩ 1/16W J 33kΩ 1/16W J
R1950	NRSA63D-822X	MG RESISTOR	8.2kΩ 1/16W D	R3014	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R1952 R1953	NRSA63J-331X NRSA63J-224X	MG RESISTOR MG RESISTOR	330Ω 1/16W J 220kΩ 1/16W J	R3015 R3016	NRSA63J-332X NRSA63J-181X	MG RESISTOR MG RESISTOR	3.3kΩ 1/16W J 180Ω 1/16W J
R1954	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J	R3017	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
R1957 R1959	NRSA63D-682X NRSA63D-182X	MG RESISTOR MG RESISTOR	6.8kΩ 1/16W D 1.8kΩ 1/16W D	R3018 R3019	NRSA63J-102X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 0Ω 1/16W J
R1961	NRSA63J-102X	MG RESISTOR	1kΩ 1/16W J	R3020	NRSA63D-102X	MG RESISTOR	1kΩ 1/16W D
R1962 R1963	NRSA63J-562X NRSA63J-182X	MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 1.8kΩ 1/16W J	R3021 R3022	NRSA63J-152X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	1.5kΩ 1/16W J 0Ω 1/16W J
R1964	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R3023	NRSA63J-473X	MG RESISTOR	47kΩ 1/16W J
R1965 R1966	NRSA63J-102X NRSA63J-822X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 8.2kΩ 1/16W J	R3024 R3025	NRSA63J-223X NRSA63J-223X	MG RESISTOR MG RESISTOR	22kΩ 1/16W J 22kΩ 1/16W J
R1967	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	R3026	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J
R1968 R1969	NRSA63J-102X NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 1kΩ 1/16W J	R3027 R3028	NRSA63J-471X NRSA63J-471X	MG RESISTOR MG RESISTOR	470Ω 1/16W J 470Ω 1/16W J
 ∆R1981	QRK126J-181X	UNF C RESISTOR	180Ω 1/2W J	R3029	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J
R1982 R1983	NRSA63D-222X NRSA63D-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W D 2.2kΩ 1/16W D	R3030 R3031	NRSA63J-471X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	470Ω 1/16W J 0Ω 1/16W J
R1984	NRSA63J-183X	MG RESISTOR	18kΩ 1/16W J	R3032	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1985 ∆ R1986	NRSA63J-0R0X QRK126J-331X	MG RESISTOR UNF C RESISTOR	0Ω 1/16W J 330Ω 1/2W J	R3033 R3035	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J
R1991	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R3036	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R1992 R2102	NRSA63J-182X NRSA63J-750X	MG RESISTOR MG RESISTOR	1.8kΩ 1/16W J 75Ω 1/16W J	R3037 R3039	NRSA63J-0R0X NRSA63J-101X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 100Ω 1/16W J
R2103	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R3040	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2104 R2105	NRSA63J-750X NRSA63J-224X	MG RESISTOR MG RESISTOR	75Ω 1/16W J 220kΩ 1/16W J	R3042 R3043	NRSA63J-103X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J 0Ω 1/16W J
R2106	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R3044	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2107 R2108	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J	R3045 R3047	NRSA63J-101X NRSA63J-221X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 220Ω 1/16W J
R2122	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R3048	NRSA63J-331X	MG RESISTOR	330Ω 1/16W J
R2123 R2125	NRSA63J-750X NRSA63J-750X	MG RESISTOR MG RESISTOR	75Ω 1/16W J 75Ω 1/16W J	R3049 R3050	NRSA63J-104X NRSA63J-563X	MG RESISTOR MG RESISTOR	100kΩ 1/16W J 56kΩ 1/16W J
R2126	NRSA63J-224X	MG RESISTOR	220kΩ 1/16W J	R3051	NRSA63J-123X	MG RESISTOR	12kΩ 1/16W J
R2127 R2134	NRSA63J-224X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	220kΩ 1/16W J 0Ω 1/16W J	R3052 R3053	NRSA63J-331X NRSA63J-123X	MG RESISTOR MG RESISTOR	330Ω 1/16W J 12kΩ 1/16W J
R2144	NRSA63J-750X	MG RESISTOR	75Ω 1/16W J	R3054	NRSA63J-103X	MG RESISTOR MG RESISTOR	10kΩ 1/16W J
R2145 R2146	NRSA63J-224X NRSA63J-224X	MG RESISTOR MG RESISTOR	220kΩ 1/16W J 220kΩ 1/16W J	R3055 R3056	NRSA63J-682X NRSA02J-0R0X	MG RESISTOR	6.8kΩ 1/16W J 0Ω 1/10W J
R2251	NRSA63J-680X NRSA63J-222X	MG RESISTOR	68Ω 1/16W J	R3057	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R2252 R2253	NRSA63J-222X NRSA63J-222X	MG RESISTOR MG RESISTOR	2.2kΩ 1/16W J 2.2kΩ 1/16W J	R3058 R3059	NRSA63J-102X NRSA63J-102X	MG RESISTOR MG RESISTOR	1kΩ 1/16W J 1kΩ 1/16W J
R2254	NRSA63J-223X	MG RESISTOR	22kΩ 1/16W J	R3060	NRSA63J-182X	MG RESISTOR	1.8kΩ 1/16W J
R2255 R2259	NRSA63J-223X NRSA63J-151X	MG RESISTOR MG RESISTOR	22kΩ 1/16W J 150Ω 1/16W J	R3061 R3062	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J
R2261	NRSA63J-151X	MG RESISTOR	150Ω 1/16W J	R3063	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2262 R2263	NRSA63J-101X NRSA63J-680X	MG RESISTOR MG RESISTOR	100Ω 1/16W J 68Ω 1/16W J	R3064 R3065	NRSA63J-0R0X NRSA63J-101X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 100Ω 1/16W J
R2264	NRSA63J-391X	MG RESISTOR	390Ω 1/16W J	R3066	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
R2265 R2268	NRSA63J-391X NRSA63J-680X	MG RESISTOR MG RESISTOR	390Ω 1/16W J 68Ω 1/16W J	R3071 R3072	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J
R2269	NRSA63J-471X	MG RESISTOR	470Ω 1/16W J	R3073	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2270 R2273	NRSA63J-471X NRSA63J-470X	MG RESISTOR MG RESISTOR	470Ω 1/16W J 47Ω 1/16W J	R3074 R3075	NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR	0Ω 1/16W J 0Ω 1/16W J
R2274	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R3076	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J
R2275	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J	R3077	NRSA63J-0R0X	MG RESISTOR	0Ω 1/16W J

ÆRef No.	Part No.	Part Name	Description Local	ÆRef No.	Part No.	Part Name	Description Local
R3078 R3079 R3080 R3081 R3082 R3501 R3502 R3503 R3504 R3505 R3507 R3508 R3511 R3516 R3511 R3518 R3519 R3520 R3521 R3523 R3522 R3533 R3524 R3535 R3536 R3537 R3536 R3537 R3536 R3537 R3536 R3537 R3538 R3541 R3548 R3555 R3537 R3551 R3552 R3533 R3544 R3555 R3536 R3557 R3539 R3541 R3548 R3549 R3551 R3555 R6001 R6002 R6003 R6004 R6006 R6007 R6008 R6009 R6001 R6001 R6001 R6001	NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-10R0X NRSA63J-101X NRSA63J-103X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-10R0X NRSA63J-10R0X NRSA63J-10R0X NRSA63J-10R0X NRSA63J-182X NRSA63J-182X NRSA63J-101X NRSA63J-182X NRSA63J-101X NRSA63J-102X NRSA63J-100X	MG RESISTOR	0Ω 1/16W J 10Ω 1/16W J 10ΩΩ 1/16W J 10ΩΩ 1/16W J 18ΩΩ 1/16W J 10ΩΩ 1/16W J	CN1006 CN100F CN100F CN100F CN100H CN100M CN100DC CN10E4 CN10E4 CN10E4 CN10E5 H1661 J1091 J2101 J2111 J2121 K1301 K1303 K1304 K1305 K1306 K1307 K1943 K1944 K3001 LC1301 LC1301 LC1302 LC302 LC303 LC2341 LC2342 LC2343 LC341 LC2342 LC2343 LC3001 LC3002 LC3003 LC2341 LC2302 LC3003 LC3001 LC3005 LC3001 LC3005 LC3001 LC3005 LC3007 LC3008 LC3501 LC3501 LC3501 LC3503 SL1211	QGB1505J1-35 QGA2501F1-06 QJB003-044214 QGF1201C2-17 QGF1201C2-13 QGA2501C5-04Z WJP0053-004A WJP0052-002A QJB003-043014 CE41507-001P QJB003-052610 LC30145-003A QNS0001-001 QNN0521-001 QNN0562-001 NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X QRN143J-0R0X QRN199-001 QQR1199-001	CONNECTOR CONNECTOR SIN ID WIRE CONNECTOR CONNECTOR CONNECTOR CONNECTOR E-SH C WIRE C-B E-SH C WIRE C-B E-SH C WIRE C-B SIN ID C-B WIRE LV CONNECTOR SIN ID C-B WIRE LV CONNECTOR SIN ID C-B WIRE LY C-B SIN ID C-B WIRE LY C-B SIN ID C-B	B-B (1-35) W-B (1-6) FFC/FPC (1-17) FFC/FPC (1-13) W-B (1-4) AV COMPULINKIII V/L/R IN S IN COMPONENT VIDEO 1/2 0Ω 1/16W J 0Ω 1/16
RA3002 RA3003 RA3004 L0502 L1211 L1301 L1302 L1401 L1402 L1943 L1945 L1948 L1949 L1950 L1951 L1952 L1983 L3003 L3004 L3005 L3007 L3502 L3503 CN1001 CN1002 CN1003 CN1004 CN1005	NRZ0040-103X NRZ0040-103X NRZ0040-103X NRZ0040-103X NRSA63J-0R0X QQL244K-100Z QRN143J-0R0X QQL26AK-100Z QQR1401-001 QQL26AK-220Z QQL26AK-220Z QQL26AK-220Z QQL26AK-220Z QQL26AK-20Z QQL26AK-470Z QQL26AK-470Z QQL26AK-470Z QQL26AK-470Z QQL26AK-470Z QQL26AK-470Z QQL26AK-470Z QRN143J-0R0X NQL092K-6R8X NQR0413-003X NRSA02J-0R0X	NET RESISTOR NET RESISTOR NET RESISTOR NET RESISTOR PEAKING COIL C RESISTOR PEAKING COIL CHOKE COIL COIL COIL COIL COIL COIL COIL COIL	10kΩ 1/16W J x4 10kΩ 1/16W J x4 10kΩ 1/16W J x4 10kΩ 1/16W J x4 0Ω 1/16W J 10uH K 0Ω 1/4W J 10uH K 10uH K 22uH K 22uH K 22uH K 47uH K 47uH K 47uH K 6.8uH K 6.8uH K 6.8uH K 6.8uH K 8-8uH K 6.8uH K 8-8uH K 6.8uH K	X3001	NAX0570-001X	CRYSTAL	(SSB-2079A-M2) Description Local H.OUT

ΔRef No.	Part No.	Part Name	Description Local	Ref No.	Part No.	Part Name	Description Local
D201 D401 D402 D403 D404 D405 D406 D407 D409 D461 D501 D521 D522 D523 D524 D525 D526 D527 D561 D562 D582 D583 D584 D585 D586 D587 D588 D589 D590 D591 D592 D701 D702 D703 ▲D911 D912 D913 D912 D913 D914 D915 D916 D917 D918 D920 D931 D912 D913 D914 D915 D916 D917 D918 D920 D931 D932 D931 D932 D933 D934 D935 D936 D937 D938 D937 D938 D937 D938 D937 D938 D937 D938 D941 D943 D959 D977 D958 D959 D9772 D973 D959 D9772 D973	1SR35-400A-T2 RD100E/B/-T2 1SR35-400A-T2 1SR35-400A-T2 1SR35-400A-T2 1SS133-T2 ISS133-T2 MTZJ9.1B-T2 MTZJ9.1B-T2 MTZJ6.8C-T2 1SS133-T2 RGP10J-5025-T3 1SS133-T2 RK14-T3 V11CA-C1 FMV-3FU-F1 RG2A-LFC4 1SS81-T5 MTZJ12C-T2 MTZJ15B-T2 MA4068N/Z1/-T2 MTZJ15B-T2 MA4068N/Z1/-T2 MTZJ15B-T2 RU1P-T3 RGP10J-5025-T3 1SR124-400A-T2 MTZJ9.1B-T2 1SS133-T2 RGP10J-5025-T3 MTZJ15B-T2 MTZJ9.1B-T2 RS133-T2 RGP10J-5025-T3 RBV-606 MA700A-T2 RGP10J-5025-T3 RBV-606 MA700A-T2 RGP10J-5025-T3 RBV-606 MA700A-T2 RGP10J-5025-T3 RBV-606 MA700A-T2 RGP10J-5025-T3 RBV-606 MA70A-T2 SS133-T2 SS133-T2 SS133-T2 SS133-T2 SST33-T2 SST33-T2 MTZJ27B-T2 MTZJ5.1B-T2 1SS133-T2 SST33-T2 MTZJ5.6B-T2 MTZJ5.6B-T2 MTZJ5.6B-T2 MTZJ15B-T2 MTZJ15B-T2 MTZJ5.6B-T2 MTZJ15B-T2 SS133-T2	SI DIODE Z DIODE SI DIODE SI DIODE SI DIODE DIODE DIODE DIODE Z DIODE DIODE SI DIODE Z DIODE SI DIO		C525 C526 C527 C528 C529 C529 C530 C531 C532 C533 C534 ♣C540 C582 C583 C584 C585 C586 C587 C588 C589 C592 C701 C702 C703 C704 C705 ♣C902 ♣C906 C907 ♣C908 C907 ♣C908 C909 C912 C913 C914 C915 C916 C917 C918 C919 C920 C923 C944 C945 C954 C977 C918 C917 C918 C919 C920 C923 C924 C930 C931 C932 C944 C935 C937 C942 C943 C944 C945 C954 C977 C948 C997 ♣C998 ♣C999	QFZ0197-335 QFZ0128-304 QFZ0128-823 QFZ0197-104 QCS32HJ-561 QCZ0122-681 QCZ0122-681 QFX0122-681 QFX0122-681 QFX0122-681 QFX0122-681 QFX0122-681 QFX0122-681 QFX0122-242 QEZ0568-107 QFP32JJ-153 QFLC2AJ-104Z QFZ0122-242 QEZ0568-107 QFP42JJ-682 QETN1HM-475Z QFN31HJ-334Z QTMN1HM-475Z QFN31HJ-184Z QEZ0568-107 QETN2EM-106Z QETN1EM-108Z QETN1EM-108Z QEX0568-107 QEX0572-687 QCZ9054-102 QEX0572-687 QCZ9054-102 QEZ0572-687 QCZ9054-102 QEZ0572-687 QCZ9054-102 QEZ0572-687 QCZ9054-102 QEX0572-687 QCZ9054-102 QEX0572-687 QCZ9054-102 QEX0572-687 QCZ9054-102 QEX0572-687 QCZ9074-471 QCS31HJ-181Z QEZ0605-107 QETM1EM-228 QETN1YM-108Z QCZ9074-472	MPP CAPACITOR MPP CAPACITOR MPP CAPACITOR MPP CAPACITOR C CAPACITOR PP CAPACITOR MPP CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR C CAPAC	3.3uF 250V J 0.3uF DC400V H 0.082uF DC400V H 0.1uF 250V J 560pF 500V J 560pF 500V J 680pF 2kV K 680pF 2kV K 680pF 2kV K 680pF 50V S 47pF 50V J 0.015uF 630V J 0.1uF 100V J 2400pF 1.8kV H 100uF 250V M 6800pF 630V J 4.7uF 50V M 0.33uF 50V J 4.7uF 50V M 0.18uF 50V J 100uF 250V M 100uF 250V M 100uF 250V M 1000uF 25V M 1000uF 25V M 1000uF 25V M 1000uF 25V M 1000pF AC250V Z 1000pF AC250V Z 1000pF AC250V Z 1000pF AC250V Z 680uF 200V M 1000pF 3C250V Z 680uF 200V M 1000pF 3C250V Z 1000pF AC250V Z 1000pF AC250V Z 1000pF AC250V J 1800pF 50V J 220uF 50V M 1000pF 50V J 220uF 50V M 1000pF 50V J 1800pF 50V J
C201 C401 C402 C403 C404 C406 C407 C408 C409 C412 C413 C461 C464 C501 C502 C503 C504 C505 C521 C522 C523	QFVF1HJ-334Z QENC1EM-106Z QFN31HJ-392Z QCS32HJ-180Z QFVF1HJ-104Z QETN1VM-108Z QEHC1VM-107Z QEHC1VM-107Z QEHC1VM-107Z QETN1HM-105Z QCB31HK-222Z QFN31HJ-822Z QFN32DJ-472Z QFN32DJ-472Z QETN1EM-476Z QFVF1HJ-224Z QEM61HK-225Z QCB32HK-152Z QCB32HK-102Z QECR1EM-227Z QFZ0122-622 QFZ0122-622	MF CAPACITOR BP E CAPACITOR M CAPACITOR M CAPACITOR MF CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR M CAPACITOR M CAPACITOR M CAPACITOR M CAPACITOR M CAPACITOR C CAPACITOR MPP CAPACITOR MPP CAPACITOR	0.33uF 50V J 10uF 25V M 3900pF 50V J 18pF 500V J 0.1uF 50V J 1000uF 35V M 100uF 35V M 100uF 35V M 2200pF 50V M 2200pF 50V M 8200pF 50V J 4700pF 200V J 470PF 200V J 2.2uF 50V K 1500pF 50V K	R201 R202 R203 R401 R402 R403 R404 R405 R406 R407 R408 R409 R410 R411 R412 R414 R415 R416 R417 R418	QRA14CF-3903Y QRA14CF-3703Y QRA14CF-2703Y QRE141J-682Y QRE141J-562Y QRE141J-180Y QRE12J-180Y QRE141J-682Y QRE141J-682Y QRE141J-332Y QRE141J-821Y QRE141J-821Y QRE141J-821Y QRE141J-821Y QRE141J-103Y QRE141J-103Y QRE141J-101Y QRE141J-101Y QRE141J-104Y QRE141J-104Y QRE141J-154Y	CMF RESISTOR CMF RESISTOR CMF RESISTOR C RESISTOR	390k Ω 1/4W F 330k Ω 1/4W F 270k Ω 1/4W F 6.8k Ω 1/4W J 5.6k Ω 1/4W J 10k Ω 1/4W F 18 Ω 1/2W J 6.8k Ω 1/4W J 6.8k Ω 1/4W J 8.20 Ω 1/4W J 820 Ω 1/4W J 820 Ω 1/4W J 150 Ω 2W J 2.2 Ω 2W J 2.2 Ω 2W J 10k Ω 1/4W J 100 Ω 1/4W J 100k Ω 1/4W J 100k Ω 1/4W J 4.7k Ω 1/4W J

ÆRef No.	Part No.	Part Name	Description Local	Ref No.	Part No.	Part Name	Description Local
R430 R431 R432 R461 R462 R463 R464 R465	QRE121J-101Y QRE121J-101Y QRE121J-101Y QRE141J-102Y QRE141J-470Y QRL029J-333 QRE141J-392Y QRL029J-222	C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR OMF RESISTOR C RESISTOR C RESISTOR	100Ω 1/2W J 100Ω 1/2W J 100Ω 1/2W J 1kΩ 1/4W J 47Ω 1/4W J 33kΩ 2W J 3.9kΩ 1/4W J 2.2kΩ 2W J	R966 R967 R968 R970 R971 R973 R975 R977	QRE141J-473Y QRE141J-473Y QRA14CF-1802Y QRT039J-1R2 QRT039J-1R2 QRE141J-392Y QRE121J-223Y QRE141J-473Y	C RESISTOR C RESISTOR CMF RESISTOR MF RESISTOR MF RESISTOR C RESISTOR C RESISTOR C RESISTOR	47kΩ 1/4W J 47kΩ 1/4W J 18kΩ 1/4W F 1.2Ω 3W J 1.2Ω 3W J 3.9kΩ 1/4W J 22kΩ 1/2W J 47kΩ 1/4W J
R466 R467 R468 R469 R470 R501 R502	QRL029J-820 QRL029J-820 QRE141J-0R0Y QRE141J-222Y QRE141J-103Y QRE141J-222Y QRE121J-271Y	OMF RESISTOR OMF RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR	82Ω 2W J 82Ω 2W J 0Ω 1/4W J 2.2kΩ 1/4W J 10kΩ 1/4W J 2.2kΩ 1/4W J 270Ω 1/2W J	R978 R984 R985 R986 R988 ∕ \R999	QRE141J-333Y QRE141J-473Y QRE141J-472Y QRE141J-332Y QRE141J-153Y QRZ0111-685	C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR	33kΩ 1/4W J 47kΩ 1/4W J 4.7kΩ 1/4W J 3.3kΩ 1/4W J 15kΩ 1/4W J 6.8MΩ 1/2W K
R503 R504 R505 R506 R521 R522	QRE141J-680Y QRL039J-820 QRL039J-820 QRE121J-102Y QRT039J-R33 QRE121J-100Y	C RESISTOR OMF RESISTOR OMF RESISTOR C RESISTOR MF RESISTOR C RESISTOR C RESISTOR	68Ω 1/4W J 82Ω 3W J 82Ω 3W J 1kΩ 1/2W J 0.33Ω 3W J 10Ω 1/2W J	L461 L521 L522 L523 L524 L525	QQLZ030-801 QQL26AM-2R7Z QQL26AM-3R3Z QQR1408-001 QQR1285-001 QQR0915-002	COIL CHOKE COIL CHOKE COIL CHOKE COIL CHOKE COIL LINEARITY COIL	800uH 2A K 2.7uH M 3.3uH M
R523 R524 R525 R526 R527 R528 R529 R530 R531 R532 R561	QRL029J-100 QRE121J-220Y QRL029J-821 QRE141J-333Y QRE141J-103Y QRE141J-470Y QRE141J-822Y QRE141J-682Y QRE141J-102Y QRE141J-101Y QRA14CF-3902Y	OMF RESISTOR C RESISTOR OMF RESISTOR C RESISTOR	10Ω 2W J 22Ω 1/2W J 820Ω 2W J 33kΩ 1/4W J 10kΩ 1/4W J 47Ω 1/4W J 8.2kΩ 1/4W J 6.8kΩ 1/4W J 1KΩ 1/4W J 10Ω 1/4W J 39kΩ 1/4W J	L581 L701 L931 L933 L934 L935 L936 T501 AT701	QQLZ018-220 QQLZ028-272 QQL26AK-100Z QQL26AK-470Z QQLZ026-220 QQL60AK-220 QQL26AK-220Z QQR1269-001 QQR1365-002 QQS0223-001	COIL COIL CHOKE COIL CHOKE COIL COIL COIL CHOKE COIL DRIVE TRANSF H. OUT TRANSF SW TRANSF	22uH 2.7mH 10uH K 47uH K 22uH ±7% 22uH K 22uH K
R562 R563 R565 R581 R582 R583 R584 R584	QRA14CF-6801Y QRA14CF-3901Y QRE141J-223Y QRE141J-104Y QRE141J-153Y QRE141J-104Y QRE141J-330Y	CMF RESISTOR CMF RESISTOR C RESISTOR	39KΩ 1/4W F 3.9KΩ 1/4W F 3.9KΩ 1/4W J 100KΩ 1/4W J 15KΩ 1/4W J 100KΩ 1/4W J 10KΩ 1/4W J 33Ω 1/4W J	CN001 CN002 CN003 CN00A CN00B CN00J CN00L CN00P	QGB1506M1-16 QGB1506M1-16 QGB1506M1-16 QGA2501C5-04Z QGA7901C1-02 QGA2501C5-05Z CE41507-001P QJB003-115031	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR LY CONNECTOR SIN ID C-B WIRE	B-B (1-16) B-B (1-16) B-B (1-16) W-B (1-4) W-B (1-2) W-B (1-5)
R586 R587 ▲R588 R589 R590 R591 R592 R593	QRE141,J-472Y QRT029J-R27 QRZ9011-4R7 QRF054J-470 QVP0086-204Z QRE141,J-224Y QRE141,J-394Y QRT029J-R27	C RESISTOR MF RESISTOR FUSI RESISTOR UNF WW RESISTOR TRIM RESISTOR C RESISTOR C RESISTOR MF RESISTOR	4.7kΩ 1/4W J 0.27Ω 2W J 4.7Ω 1/2W J 47Ω 5W J 200kΩ 0.3W N 220kΩ 1/4W J 390kΩ 1/4W J 0.27Ω 2W J	CN010 CN0AA CN0AF CN0B2 CN0S1 ACP934 ACP941 ACP942	QGB1505.J1-35 WJP0037-001A QJB003-062011 QGA7901C1-02 QGA2501F1-05 ICP-N70-T ICP-N70-T ICP-N70-T	CONNECTOR W TO B CONNE SIN ID C-B WIRE CONNECTOR CONNECTOR IC PROTECTOR IC PROTECTOR IC PROTECTOR	B-B (1-35) W-B (1-2) W-B (1-5) 2.5A 2.5A
R594 R597 ▲R701 ▲R702 ▲R703 R704 R705 R706 R901	QRE141J-473Y QRE141J-0R0Y QRZ9009-1R5 QRZ9011-1R0 QRZ9011-1R0 QRG01GJ-220 QRE121J-393Y QRX01GJ-R82 QRF154K-R51	C RESISTOR C RESISTOR FUSI RESISTOR FUSI RESISTOR FUSI RESISTOR OMF RESISTOR C RESISTOR MF RESISTOR UNF WW RESISTOR	$47k\Omega$ $1/4W$ J 0Ω $1/4W$ J 1.5Ω $1/2W$ J 1Ω $1/2W$ J 1Ω $1/2W$ J 2Ω $1W$ J 2Ω $1W$ J $39k\Omega$ $1/2W$ J 0.82Ω $1W$ J 0.51Ω $15W$ K	⚠CP943 ⚠F905 ⚠FR915 HS401 HS521 HS523 HS585 HS901	ICP-N20-Y QMFZ034-5R0Z-J1 QRZ9017-2R2 LC31695-002A CEHT11B-001QS LC31813-001A LC30521-001A LC21358-001A-A LC30171-001A	IC PROTECTOR FUSE FUSI RESISTOR HEAT SINK/AL-F/ HEAT SINK HEAT SINK HEAT SINK/AL-F/ FBT SHIELD HEAT SINK/FE-P/	800mA 5A 125V 2.2Ω 1/4W J
R902 R903 R910 R911 R912 R913 R914 R916	QRG01GJ-470 QRF154K-R51 QRE121J-152Y QRL029J-183 QRT029J-R15 QRT029J-R15 QRK126J-681X QRT029J-R15 QRK126J-332X	OMF RESISTOR UNF WW RESISTOR C RESISTOR OMF RESISTOR MF RESISTOR MF RESISTOR UNF C RESISTOR UNF C RESISTOR UNF C RESISTOR	47Ω 1W J 0.51Ω 15W K 1.5kΩ 1/2W J 18kΩ 2W J 0.15Ω 2W J 0.15Ω 2W J 680Ω 1/2W J 0.15Ω 2W J 3.3kΩ 1/2W J	HS911 HS936 HS938 K401 K521 K581 K582 K583 K584	LC31211-001A CM42862-00J-H CEHT11B-002QS QQR0621-002Z QQR0679-001 QQR0621-002Z QQR0621-002Z QQR0621-002Z QQR0621-002Z QQR0621-002Z	HEAT SINK/AL-F/ HEAT SINK ASSY HEAT SINK FERRITE BEADS	
R918 R920 R931 R932 R933 R934 R941 R944 R947 R951 R952 R953	QRE121J-122Y QRE121J-684Y QRA14CD-5602Y QRA14CD-5602Y QRA14CF-1003Y QRL039J-333 QRE121J-222Y QRL039J-102 QRE141J-473Y QRE141J-222Y QRE141J-181Y QRE121J-181Y QRE121J-221Y	C RESISTOR C RESISTOR CMF RESISTOR CMF RESISTOR CMF RESISTOR CMF RESISTOR OMF RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR C RESISTOR	1.2kΩ 1/2W J 680kΩ 1/2W J 56kΩ 1/4W D 56kΩ 1/4W D 6.8kΩ 1/4W F 100kΩ 1/4W F 33kΩ 3W J 2.2kΩ 1/2W J 1kΩ 3W J 47kΩ 1/4W J 2.2kΩ 1/4W J 2.2kΩ 1/4W J 22kΩ 1/2W J	K912 K914 K930 K931 K935 K937 K938 M581 △PC921 △RY951	QQR0582-001Z QQR0582-001Z QQR0621-002Z QQR0621-002Z QQR0621-002Z QQR0621-002Z QQR0621-002Z MSPAD402 PC123Y22 QSK0118-001 QSK0083-001	FERRITE BEADS PWB MODULE PHOTO COUPLER RELAY RELAY	
R958 R959	QRE141J-473Y QRE121J-121Y	C RESISTOR C RESISTOR	47kΩ 1/4W J 120Ω 1/2W J	R CRT	SOCKET P.W.	BOARD ASS'Y	(SSB-3177A-M2)
R960 R961 R962	QRE141J-473Y QRE141J-102Y QRE141J-472Y	C RESISTOR C RESISTOR C RESISTOR	47kΩ 1/4W J 1kΩ 1/4W J 4.7kΩ 1/4W J	_ Ref No.	Part No.	Part Name	Description Local
R963 R964 R965	QRE141J-472Y QRA14CF-4701Y QRA14CF-4701Y QRE141J-153Y	CMF RESISTOR CMF RESISTOR C RESISTOR	4.7kΩ 1/4W F 4.7kΩ 1/4W F 15kΩ 1/4W J		TDA6120Q/N2	IC	

⚠Ref No.	Part No.	Part Name	Description Local	ÆRef No.	Part No.	Part Name	Description Local
D1006 D1101 D1102 D1104 D1105 D1106	RM2C-LFA1 MA8100/M/-X MA8150/M/-X 1SS244-T2 1SS244-T2 1SS244-T2	SI DIODE Z DIODE Z DIODE SI DIODE SI DIODE SI DIODE SI DIODE		R2104 R2105 R2106 R2107 R2108 R2109	QRL039J-393 NRSA63J-470X NRSA63J-561X QRC121K-271Z NRSA63J-221X NRSA63J-0R0X	OMF RESISTOR MG RESISTOR MG RESISTOR COMP RESISTOR MG RESISTOR MG RESISTOR	39kΩ 3W J 47Ω 1/16W J 560Ω 1/16W J 270Ω 1/2W K 220Ω 1/16W J 0Ω 1/16W J
C1002 C1004 ⚠C1005 C1101 C1102	QETN2EM-106Z QETN2EM-106Z QFZ9027-103 NDC31HJ-120X QETN1HM-106Z	E CAPACITOR E CAPACITOR MM CAPACITOR C CAPACITOR E CAPACITOR	10uF 250V M 10uF 250V M 0.01uF 1000V K 12pF 50V J 10uF 50V M	L2001 L2101 L2102 L2103	QQL26AJ-102Z QQL26AJ-102Z QQL244K-1R8Z NRSA02J-0R0X	PEAKING COIL PEAKING COIL PEAKING COIL MG RESISTOR	1mH J 1mH J 1.8uH K 0Ω 1/10W J
C1103 C1104 C1105 C1106 C1107 C1108 C1109 C1113	NCB31HK-103X QETN1EM-476Z NCB31HK-103X QETN2EM-106Z QFZ0197-334 NCZ1008-473X NCZ1008-473X NDC31HJ-220X	C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR MPP CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR	0.01uF 50V K 47uF 25V M 0.01uF 50V K 10uF 250V M 0.33uF 250V J 0.047uF 250V K 0.047uF 250V K 22pF 50V J	CN200A CN200E CN200V CN20GE CN2GBK CN2GBN CN2RGK CN2RGN	QJB003-042424 QJB003-062211 QJB003-042424	CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR SIN ID C-B WIRE SIN ID C-B WIRE SIN ID C-B WIRE	W-B (1-4) W-B (1-10) W-B (1-3) (1-2) W-B (1-6)
R1001 R1002 R1003 R1101 R1102 R1103	QRE121J-105Y QRC121K-102Z QRZ0107-152Z NRSA63J-152X NRSA63J-562X NRSA63J-122X	C RESISTOR COMP RESISTOR C RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	1MΩ 1/2W J 1kΩ 1/2W K 1.5kΩ 1/2W K 1.5kΩ 1/16W J 5.6kΩ 1/16W J 1.2kΩ 1/16W J	ΔFR2101 H2001 SG2001 ΔSK2001	QRZ9009-470 LC31930-001A QAF0056-501Z QNZ0536-001	FUSI RESISTOR HEAT SINK/AL-F/ SURGE ABSORBER CRT SOCKET	47Ω 1/2W J 500V M
R1104	QRL039J-393	OMF RESISTOR	39kΩ 3W J	B CRT	SOCKET P.W.	BOARD ASS'Y (SSB-3377A-M2)
R1105 R1106 R1107 R1108	NRSA63J-470X NRSA63J-561X QRC121K-271Z NRSA63J-221X	MG RESISTOR MG RESISTOR COMP RESISTOR MG RESISTOR	47Ω 1/16W J 560Ω 1/16W J 270Ω 1/2W K 220Ω 1/16W J	Ref No.	Part No.	Part Name	Description Local
R1109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J	∆ IC3001	TDA6120Q/N2	IC	
L1101 L1102	QQL26AJ-102Z QQL244K-1R8Z	PEAKING COIL PEAKING COIL	1mH J 1.8uH K	Q3031	2SA1037AK/QR/-X	TRANSISTOR	
L1103 CN10RE CN1RGK CN1RGN ΔFR1101 H1001 SG1001 ΔSK1001		MG RESISTOR CONNECTOR CONNECTOR CONNECTOR FUSI RESISTOR HEAT SINK/AL-F/ SURGE ABSORBER CRT SOCKET	0Ω 1/10W J (1-2) W-B (1-6) W-B (1-4) 47Ω 1/2W J 500V M	D3006 D3101 D3102 D3104 D3105 D3106 D3201	RM2C-LFA1 MA8100/M/-X MA8150/M/-X 1SS244-T2 1SS244-T2 1SS244-T2 MA111-X QETN2EM-106Z	SI DIODE Z DIODE Z DIODE SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE	10uF 250V M
				C3004	OFTN2FM-1067	E CAPACITOR	10uF 250\/ M

SG1001	QAF0056-501Z	SURGE ABSORBER	500V M				
 ∆ SK1001	QNZ0536-001	CRT SOCKET		C3002	QETN2EM-106Z	E CAPACITOR	10uF 250V M
				C3004	QETN2EM-106Z	E CAPACITOR	10uF 250V M
				∆ C3005	QFZ9027-103	MM CAPACITOR	0.01uF 1000V K
				C3101	NDC31HJ-8R0X	C CAPACITOR	8pF 50V J
C CDT	SOCKET DW	. BOARD ASS'Y	(CCD_2277 A_M2)	C3102	QETN1HM-106Z	E CAPACITOR	10uF 50V M
GCKI	SUCKET F.W	. BUAND ASS I	(336-3211A-WZ)	C3103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
⚠Ref No.	Part No.	Part Name	Description Local	C3104	QETN1EM-476Z	E CAPACITOR	47uF 25V M
25KC1140.	i ditiro.	i dit i vaine	Description Local	C3105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K
				C3106	QETN2EM-106Z	E CAPACITOR	10uF 250V M
∆ IC2001	TDA6120Q/N2	IC		C3100	QFZ0197-334	MPP CAPACITOR	0.33uF 250V J
2:3102001	I DAUIZUQ/NZ	ic		C3107	NCZ1008-473X	C CAPACITOR	0.047uF 250V K
D2006	RM2C-LFA1	SI DIODE		C3100	NCZ1008-473X	C CAPACITOR	0.047uF 250V K
D2000 D2101	MA8100/M/-X	Z DIODE		C3109	NDC31HJ-270X	C CAPACITOR C CAPACITOR	27pF 50V J
D2101 D2102	MA8150/M/-X	Z DIODE Z DIODE		C3201	NDC31HJ-270X NDC31HJ-150X	C CAPACITOR C CAPACITOR	15pF 50V J
D2102 D2104		SI DIODE		U3201	INDC91HJ-190V	CCAPACITOR	15pr 50V 3
D2104 D2105	1SS244-T2 1SS244-T2	SI DIODE SI DIODE		R3001	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J
D2105 D2106	1SS244-T2 1SS244-T2	SI DIODE SI DIODE		R3001 R3002	QRC1215-1051 QRC121K-102Z	COMP RESISTOR	
D2106	155244-12	21 DIODE			QRZ0107-152Z	C RESISTOR	1kΩ 1/2W K
00004	OFTNOEN 4007	E CARACITOR	40E 050\/ M	R3003			1.5kΩ 1/2W K
C2001 C2002	QETN2EM-106Z	E CAPACITOR	10uF 250V M	R3031	NRSA63D-123X	MG RESISTOR	12kΩ 1/16W D
	QETN2EM-106Z	E CAPACITOR	10uF 250V M	R3032	NRSA63D-562X	MG RESISTOR	5.6kΩ 1/16W D
C2004	QETN2EM-106Z	E CAPACITOR	10uF 250V M	R3033	NRSA63J-104X	MG RESISTOR	100kΩ 1/16W J
∆ C2005	QFZ9027-103	MM CAPACITOR	0.01uF 1000V K	R3101	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C2010	QETN1CM-107Z	E CAPACITOR	100uF 16V M	R3102	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
C2101	NDC31HJ-120X	C CAPACITOR	12pF 50V J	R3103	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
C2102	QETN1HM-106Z	E CAPACITOR	10uF 50V M	R3104	QRL039J-393	OMF RESISTOR	39kΩ 3W J
C2103	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R3105	NRSA63J-470X	MG RESISTOR	47Ω 1/16W J
C2104	QETN1EM-476Z	E CAPACITOR	47uF 25V M	R3106	NRSA63J-561X	MG RESISTOR	560Ω 1/16W J
C2105	NCB31HK-103X	C CAPACITOR	0.01uF 50V K	R3107	QRC121K-271Z	COMP RESISTOR	270Ω 1/2W K
C2106	QETN2EM-106Z	E CAPACITOR	10uF 250V M	R3108	NRSA63J-221X	MG RESISTOR	220Ω 1/16W J
C2107	QFZ0197-334	MPP CAPACITOR	0.33uF 250V J	R3109	NRSA63J-101X	MG RESISTOR	100Ω 1/16W J
C2108	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	R3201	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J
C2109	NCZ1008-473X	C CAPACITOR	0.047uF 250V K	R3202	NRSA63J-821X	MG RESISTOR	820Ω 1/16W J
C2113	NDC31HJ-220X	C CAPACITOR	22pF 50V J				
D	005101110511	0.050,0700	4140 4/0144	L3101	QQL26AJ-102Z	PEAKING COIL	1mH J
R2001	QRE121J-105Y	C RESISTOR	1MΩ 1/2W J	L3102	QQL244K-1R8Z	PEAKING COIL	1.8uH K
R2002	QRC121K-102Z	COMP RESISTOR	1kΩ 1/2W K	L3103	NRSA02J-0R0X	MG RESISTOR	0Ω 1/10W J
R2003	QRZ0107-152Z	C RESISTOR	1.5kΩ 1/2W K				/· ->
R2010	NRSA63D-103X	MG RESISTOR	10kΩ 1/16W D	CN30BE	QGZ5004C1-02	CONNECTOR	(1-2)
R2011	NRSA63J-334X	MG RESISTOR	330kΩ 1/16W J	CN3GBK		SIN ID C-B WIRE	
R2012	NRSA63D-392X	MG RESISTOR	3.9kΩ 1/16W D	CN3GBN	QGA2501C5-04Z	CONNECTOR	W-B (1-4)
R2101	NRSA63J-152X	MG RESISTOR	1.5kΩ 1/16W J	 ▲FR3101	QRZ9009-470	FUSI RESISTOR	47Ω 1/2W J
R2102	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J	H3001	LC31930-001A	HEAT SINK/AL-F/	
R2103	NRSA63J-122X	MG RESISTOR	1.2kΩ 1/16W J	SG3001	QAF0056-501Z	SURGE ABSORBER	500V M

ÆRef No.	Part No.	Part Name	Description Local	Ref No.	Part No.	Part Name	Description Local
 ∆ SK3001	QNZ0536-001	CRT SOCKET		D915 D916 D917	MA111-X MA111-X MA111-X	SI DIODE SI DIODE SI DIODE	
	ERGENCE OU' 079A-M2)	T P.W. BOARD ASS'Y		D919 D921 D922 D926	MA111-X MA3091/M/-X MA3091/M/-X MA111-X	SI DIODE Z DIODE Z DIODE SI DIODE	
ÆRef No.	Part No.	Part Name	Description Local	D927 D928	MA111-X MA111-X MA111-X	SI DIODE SI DIODE SI DIODE	
IC801 IC803	L7805CP L7805CP	IC IC		C801 C802 C803	QETN1CM-107Z QETN1CM-107Z QETN1CM-107Z	E CAPACITOR E CAPACITOR E CAPACITOR	100uF 16V M 100uF 16V M 100uF 16V M
IC804 IC805	STK394-220 STK394-220	IC IC IC		C804	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
IC806	TC7W04F-X	IC		C805 C806	QETN1CM-107Z NCB31EK-104X	E CAPACITOR C CAPACITOR	100uF 16V M 0.1uF 25V K
IC900 IC901	BA10358F-XE BA10358F-XE	IC IC		C807 C808	QETN1CM-107Z	E CAPACITOR	100uF 16V M
IC902	BA10393F-XE	ic		C809	NCB31EK-104X NCB31EK-104X	C CAPACITOR C CAPACITOR	0.1uF 25V K 0.1uF 25V K
Q801	2SC3852A	SI TRANSISTOR		C810 C812	QETN1EM-107Z NDC31HJ-181X	E CAPACITOR C CAPACITOR	100uF 25V M 180pF 50V J
Q802 Q803	2SA673/C/-T 2SA673/C/-T	SI TRANSISTOR SI TRANSISTOR		C813	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
Q806	2SD601A/QR/-X	TRANSISTOR		C814 C818	NCB31EK-104X NCB31HK-104X	C CAPACITOR C CAPACITOR	0.1uF 25V K 0.1uF 50V K
Q807 Q808	2SD601A/QR/-X 2SD601A/QR/-X	TRANSISTOR TRANSISTOR		C819 C820	NCB31HK-104X NDC31HJ-151X	C CAPACITOR C CAPACITOR	0.1uF 50V K 150pF 50V J
Q809 Q810	2SD601A/QR/-X 2SD601A/QR/-X	TRANSISTOR TRANSISTOR		C821	NDC31HJ-151X	C CAPACITOR	150pF 50V J
Q811	2SK1374-X	MOS FET		C822 C823	NDC31HJ-151X NDC31HJ-151X	C CAPACITOR C CAPACITOR	150pF 50V J 150pF 50V J
Q812 Q900	2SK1374-X 2SC1959/Y/-T	MOS FET TRANSISTOR		C824 C825	NDC31HJ-151X NDC31HJ-151X	C CAPACITOR C CAPACITOR	150pF 50V J 150pF 50V J
Q901 Q902	2SA562TM/Y/-T 2SK2503-X	TRANSISTOR CHIP FET		C827	QETN1HM-477Z	E CAPACITOR	470uF 50V M
Q903	2SC1959/Y/-T	TRANSISTOR		C828 C829	QETN1HM-477Z NDC31HJ-151X	E CAPACITOR C CAPACITOR	470uF 50V M 150pF 50V J
Q904 Q905	2SA562TM/Y/-T 2SJ377-X	TRANSISTOR CHIP FET		C830	NDC31HJ-151X	C CAPACITOR	150pF 50V J
Q906	2SC3928A/QR/-X	TRANSISTOR		C831 C832	NDC31HJ-151X NDC31HJ-151X	C CAPACITOR C CAPACITOR	150pF 50V J 150pF 50V J
Q907 Q908	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR		C833 C834	NDC31HJ-151X NDC31HJ-151X	C CAPACITOR C CAPACITOR	150pF 50V J 150pF 50V J
Q909 Q910	2SC3928A/QR/-X 2SC1959/Y/-T	TRANSISTOR TRANSISTOR		C838	NCB31HK-104X	C CAPACITOR	0.1uF 50V K
Q911	2SA562TM/Y/-T	TRANSISTOR		C839 C840	QCS31HJ-100Z QCS31HJ-100Z	C CAPACITOR C CAPACITOR	10pF 50V J 10pF 50V J
Q912 Q913	2SK2417 2SC1959/Y/-T	POWER MOS FET TRANSISTOR		C841 C843	QCS31HJ-100Z NCB31HK-103X	C CAPACITOR C CAPACITOR	10pF 50V J 0.01uF 50V K
Q914 Q915	2SA1530A/QR/-X 2SA562TM/Y/-T	SI TRANSISTOR TRANSISTOR		C844	QETN1CM-106Z	E CAPACITOR	10uF 16V M
Q916	2SC3928A/QR/-X	TRANSISTOR		C845 C846	NDC31HJ-150X NDC31HJ-150X	C CAPACITOR C CAPACITOR	15pF 50V J 15pF 50V J
Q917 Q918	2SC3928A/QR/-X 2SC3928A/QR/-X	TRANSISTOR TRANSISTOR		C847 C848	NDC31HJ-150X NDC31HJ-150X	C CAPACITOR C CAPACITOR	15pF 50V J 15pF 50V J
D804	1SR153-400-T2	FR DIODE		C851	NDC31HJ-220X	C CAPACITOR	22pF 50V J
D805	1SR153-400-T2	FR DIODE		C852 C853	NDC31HJ-220X NDC31HJ-220X	C CAPACITOR C CAPACITOR	22pF 50V J 22pF 50V J
D811 D812	PTZ8.2B-X PTZ8.2B-X	Z DIODE Z DIODE		C854 C900	QETN1AM-227Z QECQ1VM-108	E CAPACITOR E CAPACITOR	220uF 10V M 1000uF 35V M
D816 D817	RD33E/B2/-T2 RD33E/B2/-T2	Z DIODE Z DIODE		C901	QECR1VM-227Z	E CAPACITOR	220uF 35V M
D818	RD33E/B2/-T2	Z DIODE		C902 C903	QFLC1HJ-223Z QECQ1VM-108	M CAPACITOR E CAPACITOR	0.022uF 50V J 1000uF 35V M
D819 D820	RD33E/B2/-T2 RD33E/B2/-T2	Z DIODE Z DIODE		C904 C907	QECR1VM-227Z QFLC1HJ-223Z	E CAPACITOR M CAPACITOR	220uF 35V M 0.022uF 50V J
D821 D822	RD33E/B2/-T2 RD33E/B2/-T2	Z DIODE Z DIODE		C908	NDC31HJ-270X	C CAPACITOR	27pF 50V J
D823	RD33E/B2/-T2	Z DIODE		C909 C910	NCB31HK-103X QETN1EM-476Z	C CAPACITOR E CAPACITOR	0.01uF 50V K 47uF 25V M
D824 D825	RD33E/B2/-T2 RD33E/B2/-T2	Z DIODE Z DIODE		C911 C912	QETN1EM-476Z QETN1EM-476Z	E CAPACITOR E CAPACITOR	47uF 25V M 47uF 25V M
D826	RD33E/B2/-T2	Z DIODE		C913	QFZ0194-104	MPP CAPACITOR	0.1uF
D827 D829	RD33E/B2/-T2 MA111-X	Z DIODE SI DIODE		C914 C915	NCB31HK-103X QETN1EM-476Z	C CAPACITOR E CAPACITOR	0.01uF 50V K 47uF 25V M
D830 D831	MA111-X MA111-X	SI DIODE SI DIODE		C916	QETN1EM-476Z	E CAPACITOR	47uF 25V M
D832	MA111-X	SI DIODE		C917 C918	QETN1EM-476Z QFVF1HJ-474Z	E CAPACITOR MF CAPACITOR	47uF 25V M 0.47uF 50V J
D837 D841	MA111-X PTZ6.8B-X	SI DIODE Z DIODE		C919 C920	QFVF1HJ-474Z QFVF1HJ-474Z	MF CAPACITOR MF CAPACITOR	0.47uF 50V J 0.47uF 50V J
D842 D843	PTZ6.8B-X PTZ6.8B-X	Z DIODE Z DIODE		C921	QFVF1HJ-474Z	MF CAPACITOR	0.47uF 50V J
D844	MTZJ6.8C-T2	Z DIODE		C922 C923	QFVF1HJ-474Z QFVF1HJ-474Z	MF CAPACITOR MF CAPACITOR	0.47uF 50V J 0.47uF 50V J
D845 D846	MTZJ6.8C-T2 MTZJ6.8C-T2	Z DIODE Z DIODE		C924 C925	QETN1VM-107Z QETN1VM-107Z	E CAPACITOR E CAPACITOR	100uF 35V M 100uF 35V M
D847 D904	MTZJ6.8C-T2 MA3091/M/-X	Z DIODE Z DIODE		C926	NCB31EK-104X	C CAPACITOR	0.1uF 25V K
D904 D905 D906	FSQ05A04 MA3091/M/-X	SB DIODE Z DIODE		C927	QETN1HM-106Z	E CAPACITOR	10uF 50V M
D907 D910	FSQ05A04 RL2Z-LFC4	SB DIODE SI DIODE		R801 R802	NRSA63J-272X NRSA63J-272X	MG RESISTOR MG RESISTOR	2.7kΩ 1/16W J 2.7kΩ 1/16W J
D911	MA111-X	SI DIODE		R803 R804	NRSA63J-272X NRSA63J-272X	MG RESISTOR MG RESISTOR	2.7kΩ 1/16W J 2.7kΩ 1/16W J
D912 D913	MA111-X MA111-X	SI DIODE SI DIODE		R805	NRSA63J-272X	MG RESISTOR	2.7kΩ 1/16W J
D914	MA111-X	SI DIODE		R806 R807	NRSA63J-272X NRSA63J-272X	MG RESISTOR MG RESISTOR	2.7kΩ 1/16W J 2.7kΩ 1/16W J
				11001	1110/1000 2/2/		N32 1/ 10 VV U

ΔRef No.	Part No.	Part Name	Description Local	⚠Ref No.	Part No.	Part Name	Description Local
R808 R809 R810 R812 R813 R818 R828 R829 R830 R831 R832 R833 R834 R835 R836 R837	NRSA63J-272X QRE121J-471Y NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-473X NRSA63J-473X NRSA63J-473X NRSA63J-473X NRSA63J-473X NRSA63J-473X	MG RESISTOR C RESISTOR MG RESISTOR	2.7kΩ 1/16W J 470Ω 1/2W J 1.2kΩ 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 47kΩ 1/16W J	R937 R938 R939 R940 R941 R942 R943 R944 R945 R946 R947 R948 R949 R950 R951 R955 R956	NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-121 NRSA63J-683X NRSA63J-153X QRE121J-332Y NRSA63J-154X NRSA63J-331X NRSA63J-331X NRSA63J-332X NRSA63J-153X NRSA63J-153X NRSA63J-153X NRSA63J-153X NRSA63J-682X NRSA63J-682X NRSA63J-0ROX	MG RESISTOR MG RESISTOR MG RESISTOR OMF RESISTOR GRESISTOR MG RESISTOR	$\begin{array}{c} 1 k\Omega \ 1/16W \ J \\ 1 k\Omega \ 1/16W \ J \\ 47 k\Omega \ 1/16W \ J \\ 220\Omega \ 3W \ J \\ 68 k\Omega \ 1/16W \ D \\ 15 k\Omega \ 1/16W \ J \\ 3.3 k\Omega \ 1/2W \ J \\ 150 k\Omega \ 1/16W \ J \\ 150 k\Omega \ 1/16W \ J \\ 330\Omega \ 1/16W \ J \\ 330\Omega \ 1/16W \ J \\ 15 k\Omega \ 1/16W \ J \\ 0.8 k\Omega \ 1/16W \ J \\ 0.$
R839 R840 R842 R843 R844 R846 R847 R848 R850 R851	NRSA63J-473X NRSA63J-332X QRX01GJ-2R2 QRL029J-221 NRSA63J-332X QRX01GJ-1R5 QRL029J-151 NRSA63J-332X QRX01GJ-2R2 QRL029J-221	MG RESISTOR MG RESISTOR MF RESISTOR OMF RESISTOR MG RESISTOR MF RESISTOR OMF RESISTOR MF RESISTOR MF RESISTOR MF RESISTOR OMF RESISTOR OMF RESISTOR	47kΩ 1/16W J 3.3kΩ 1/16W J 2.2Ω 1W J 220Ω 2W J 3.3kΩ 1/16W J 1.5Ω 1W J 15ΩΩ 2W J 3.3kΩ 1/16W J 2.2Ω 1W J 2.2Ω 1W J 2.2Ω 2W J	L802 L803 L804 L805 L806 L807 L900 L901 ΔT900	QQL521J-470 QQL26AK-330Z QQL26AK-330Z NQL092K-R10X NQL092K-R10X NQL092K-R10X QQR1432-001 QQR1432-001 QQS0229-001	COIL CHOKE COIL CHOKE COIL COIL COIL COIL CHOKE COIL CHOKE COIL SW TRANSF	47uH J 33uH K 33uH K 0.1uH K 0.1uH K 0.1uH K
R852 R854 R855 R856 R858 R859 R860 R862 R863 R864 R866 R867 R868 R869 R870 R871 R872 R873 R877 R878 R879 R881 R882 R900 R901 R902 R903 R904 R905 R906	NRSA63J-322X QRX01GJ-1R5 QRL029J-151 NRSA63J-332X QRX01GJ-3R3 QRL029J-221 NRSA63J-332X QRX01GJ-1R8 QRL029J-151 NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-0R0X QRL029J-221 NRSA63J-0R0X QRL029J-221 NRSA63J-0R0X QRL029J-221 NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-1220Y NRSA63J-472X QRE121J-220Y NRSA63J-472X QRE121J-220Y NRSA63J-333X	MG RESISTOR MF RESISTOR OMF RESISTOR MG RESISTOR	3.3k\(\Omega\) 1/16W J 1.5\(\Omega\) 1/16W J 150\(\Omega\) 2W J 3.3k\(\Omega\) 1/16W J 220\(\Omega\) 2W J 3.3k\(\Omega\) 1/16W J 1.8\(\Omega\) 1/16W J 1.8\(\Omega\) 1/16W J 150\(\Omega\) 2W J 47k\(\Omega\) 1/16W J 1k\(\Omega\) 1/16W J 1k\(\Omega\) 1/16W J 1k\(\Omega\) 1/16W J 1k\(\Omega\) 1/16W J 220\(\Omega\) 2W J 0\(\Omega\) 1/16W J 220\(\Omega\) 2W J 0\(\Omega\) 1/16W J 220\(\Omega\) 1/16W J 22\(\Omega\) 1/16W J 22\(\Omega\) 1/16W J 22\(\Omega\) 1/16W J 22\(\Omega\) 1/16W D 2.2k\(\Omega\) 1/16W D 2.2k\(\Omega\) 1/16W D 4.7k\(\Omega\) 1/16W J 22\(\Omega\) 1/16W J 22\(\Omega\) 1/16W J 33k\(\Omega\) 1/16W J 22\(\Omega\) 1/16W J 33k\(\Omega\) 1/16W J	CN00K CN00N CN00P CN00W CN00Z CN011 CN012 CN0BI CN0GI CN0RI H001 H003 H004 H005 K801 K802 K803 K806 K806 K807 K808 K809 K810 K810	QGA2501C5-06Z WJM0151-002A QGA2501C1-11 QJB003-071402 QJB003-114611 QGA2501C1-10 QGB2501J1-15 QGA2501F1-04 QGA2501F1-04 QGA2501F1-04 CEHT11B-002QS CEHT11B-002QS LC31881-002A QQR0621-002Z	CONNECTOR E-SI C WIRE C-F CONNECTOR SIN ID C-B WIRE SIN ID C-B WIRE CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR CONNECTOR HEAT SINK FERRITE BEADS	W-B (1-6) W-B (1-11) W-B (1-10) B-B (1-15) B-B (1-15) W-B (1-4) W-B (1-4) W-B (1-4)
R907 R908 R909 R910	NRSA63D-223X NRSA63D-222X NRSA63J-472X NRSA63J-223X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	22kΩ 1/16W D 2.2kΩ 1/16W D 4.7kΩ 1/16W J 22kΩ 1/16W J	VM P.W ⚠Ref No.	Part No.	S'Y (SSB7277A-M2 Part Name	Description Local
R911 R912 R913 R914 R915 R916 R917 R918	NRSA63D-223X NRSA63D-682X NRSA63D-472X NRSA63D-103X NRSA63D-103X NRSA63D-103X NRSA63D-103X NRSA63D-103X	MG RESISTOR	22kΩ 1/16W D 6.8kΩ 1/16W D 4.7kΩ 1/16W D 10kΩ 1/16W D 4.7kΩ 1/16W D 10kΩ 1/16W D 10kΩ 1/16W D	Q7101 Q7102 Q7103 Q7104 Q7105 Q7106	2SC1906-T 2SA1005/MLK/-T 2SC1959/Y/-T 2SA562TM/Y/-T 2SJ584LS-CB11 2SK2417	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR POWER MOS FET POWER MOS FET	
R919 R920 R921	NRSA63J-102X NRSA63J-102X NRSA63J-223X NRSA63J-223X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	1kΩ 1/16W J 1kΩ 1/16W J 22kΩ 1/16W J 22kΩ 1/16W J	D7101 D7102 D7103	1SS355-X RGP10J-04TS-T3 RGP10J-04TS-T3	SI DIODE SI DIODE SI DIODE	
R922 R923 R924 R925 R926 R927 R928 R929 R930 R931 R932 R933 R934 R935 R936	NRSA63J-683X NRSA63J-103X NRSA63J-103X NRSA63J-173X NRSA63J-272X QRE121J-470Y QRE121J-470Y NRSA63J-103X NRSA63J-102X NRSA63J-473X QRL039J-221 NRSA63J-223X NRSA63J-103X NRSA63J-473X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR C RESISTOR C RESISTOR C RESISTOR MG RESISTOR	68kΩ 1/16W J 470kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 47kΩ 1/16W J 2.7kΩ 1/16W J 47Ω 1/2W J 47Ω 1/2W J 10kΩ 1/16W D 1kΩ 1/16W D 1kΩ 1/16W J 220Ω 3W J 22kΩ 1/16W J 10kΩ 1/16W J 47kΩ 1/16W J	C7101 C7102 C7103 C7104 C7107 C7108 C7109 C7110 C7111 C7112 C7113 C7116 C7117	NCB31HK-102X QETN1HM-106Z NCB31HK-473X NCB31HK-473X QFN32DK-103 QETN2EM-105Z QETN2CM-226Z QETN2CM-226Z QETN2CM-226Z QFN31HJ-222Z QFN31HJ-222Z QCS32HJ-330Z QFN32DK-103 QFN32DK-103	C CAPACITOR E CAPACITOR C CAPACITOR C CAPACITOR M CAPACITOR M CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR M CAPACITOR	1000pF 50V K 10uF 50V M 0.047uF 50V K 0.047uF 50V K 0.01uF 200V K 0.01uF 200V K 1uF 250V M 22uF 160V M 22uF 160V M 22uF 160V M 2200pF 50V J 2200pF 50V J 33pF 500V J 0.01uF 200V K

ÆRef No.	Part No.	Part Name	Description Local
C7119 C7120	QCB32HK-103 QCB32HK-152Z	C CAPACITOR C CAPACITOR	0.01uF 500V K 1500pF 500V K
R7101 R7102 R7103 R7104 R7105 R7106 R7107 R7110 R7111 R7112 R7113 R7114 R7115 R7116 R7119 R7120 R7121 R7122 R7123	NRSA63J-101X NRSA63J-223X NRSA63J-332X NRSA63J-332X NRSA63J-391X NRSA63J-391X NRSA63J-471X NRSA63J-392X QRJ146J-182X QRE121J-473Y QRJ146J-681X QRJ146J-470X QRJ146J-470X QRJ146J-470X QRG01GJ-180 QRG01GJ-180 QRG01GJ-180 QRL039J-220 QRL039J-220 QRL039J-220 QRL039J-220 NRSA63J-101X	MG RESISTOR UNF C RESISTOR C RESISTOR UNF C RESISTOR UNF C RESISTOR UNF C RESISTOR UNF C RESISTOR OMF RESISTOR	$\begin{array}{c} 100\Omega\ 1/16W\ J\\ 22k\Omega\ 1/16W\ J\\ 3.3k\Omega\ 1/16W\ J\\ 3.3k\Omega\ 1/16W\ J\\ 390\Omega\ 1/16W\ J\\ 470\Omega\ 1/16W\ J\\ 3.9k\Omega\ 1/16W\ J\\ 1.8k\Omega\ 1/4W\ J\\ 47k\Omega\ 1/2W\ J\\ 47k\Omega\ 1/2W\ J\\ 47k\Omega\ 1/2W\ J\\ 47k\Omega\ 1/4W\ J\\ 47\Omega\ 1/4W\ J\\ 47\Omega\ 1/4W\ J\\ 47\Omega\ 1/4W\ J\\ 18\Omega\ 1W\ J\\ 18\Omega\ 1W\ J\\ 22\Omega\ 3W\ J\\ 22\Omega\ 3W\ J\\ 22\Omega\ 3W\ J\\ 22\Omega\ 3W\ J\\ 100\Omega\ 1/16W\ J\\ \end{array}$
CN700J CN700V CN7GAM CN7RAM H7105 H7106 K7101 LC7101	QGA2501C5-05Z QJB003-031613 QGA2501C5-03Z QGA2501C5-03Z CEHS12B-002Q CEHS12B-002Q QQR1114-001Z QQR1199-001	CONNECTOR SIN ID C-B WIRE CONNECTOR CONNECTOR HEAT SINK HEAT SINK FERRITE BEADS EMI FILTER	W-B (1-5) W-B (1-3) W-B (1-3)

REMOCON SENSOR P.W. BOARD ASS'Y (SSB-8068A-M2)

Part No.	Part Name	Description Loca
GP1UM281QK	IR DETECT UNIT	38kHz
MA3068/M/-X	Z DIODE	
NCB31CK-104X QETN1EM-476Z	C CAPACITOR E CAPACITOR	0.1uF 16V K 47uF 25V M
NRSA63J-102X NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR MG RESISTOR	$1 k\Omega$ 1/16W J 100Ω 1/16W J 100Ω 1/16W J
	GP1UM281QK MA3068/M/-X NCB31CK-104X QETN1EM-476Z NRSA63J-102X NRSA63J-101X	GP1UM281QK IR DETECT UNIT MA3068/M/-X Z DIODE NCB31CK-104X C CAPACITOR QETN1EM-476Z E CAPACITOR NRSA63J-102X MG RESISTOR NRSA63J-101X MG RESISTOR

LINE FILTER P.W. BOARD ASS'Y (SSB-9079A-M2)

∆Ref No.	Part No.	Part Name	Description Local
D9911	1SR35-400A-T2	SI DIODE	
D9912	1SR35-400A-T2	SI DIODE	
D9913	1SR35-400A-T2	SI DIODE	
D9914	1SR35-400A-T2	SI DIODE	
D9921	1SR35-400A-T2	SI DIODE	
⚠C9901	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
⚠C9902	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
⚠C9903	QFZ9072-104	MM CAPACITOR	0.1uF AC250V K
C9911	QETN1CM-108Z	E CAPACITOR	1000uF 16V M
C9921	QETM1HM-108	E CAPACITOR	1000uF 50V M
⚠R9901	QRZ9041-275	C RESISTOR	2.7MΩ 1/2W K
R9911	QRE121J-5R6Y	C RESISTOR	5.6Ω 1/2W J
∆ T9911	QQT0382-001	POWER TRANSF	
CN900B CN900F &F9901 &LF9901 &LF9902 &LF9903 &VA9901	QGA7901C1-02 QGA2501C5-04Z QMF61U1-7R0-S QQR1407-001 QQR1407-001 QQR1407-001 ERZV10V621CS	CONNECTOR CONNECTOR FUSE LINE FILTER LINE FILTER LINE FILTER ZNR	W-B (1-2) W-B (1-4) 7A AC125V

SUB POWER P.W. BOARD ASS'Y (SSB-9379A-M2)

IC

Part Name

IC9351 NJM431L-T

Description Local

IC9351	PQ070XH02Z-W	IC IC	
Q9301 Q9302 Q9371	2SK3567 2SD2144S/UV/-T 2SC3928A/QR/-X	POWER MOS FET TRANSISTOR TRANSISTOR	
D9303 D9321 D9322 D9341 D9342 D9343 D9344 D9376	RG1C-LFA1 MA111-X MA111-X FMX-G12S RGP10J-5025-T3 FMX-G12S RGP10J-5025-T3 PTZ12B-X	SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE SI DIODE Z DIODE	
↑C9001 ↑C9002 ↑C9301 ↑C9302 ↑C9303 ↑C9304 ↑C9305 ↑C9306 ↑C9321 ↑C9322 ↑C9323 ↑C9325 ↑C9329 ↑C9330 ↑C9342 ↑C9343 ↑C9343 ↑C9345 ↑C9348 ↑C9341 ↑C9348 ↑C9374	QFZ9075-104 QFZ9075-104 QCZ9054-102 QCZ9054-102 QCZ9054-102 QEZ0199-127 QFP32GJ-103 QCZ0340-151 QETN1HM-105Z QFN31HJ-472Z NDC31HJ-471X QFLC1HJ-183Z QCZ9078-222 QCZ9078-222 QETN0JM-228Z QETNOJM-228Z QETNOJM-227Z QETN1EM-477Z QETM1EM-477Z QETM1EM-476Z	MPP CAPACITOR MPP CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR PP CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR M CAPACITOR C CAPACITOR E CAPACITOR	0.1uF AC275V M 0.1uF AC275V M 1000pF AC250V Z 1000pF AC250V Z 1000pF AC250V Z 1000pF AC250V Z 120uF 400V M 0.01uF 400V J 150pF 2kV K 1uF 50V M 4700pF 50V J 470pF 50V J 2200pF AC250V M 2200pF AC250V M 2200uF 6.3V M 220uF 6.3V M 470uF 25V M 0.1uF 50V J 470uF 25V M
R9301 R9302 R9303 R9306 R9307 R9321 R9322 R9325 R9326 R9327 R9352 R9353 R9354 R9355 R9357 R9357 R9371 R9372 R9373 R9374 R9377 R9378 R9379 R9379	QRF074K-5R6 QRK126J-474X QRK126J-683X QRL029J-823 QRL029J-823 NRSA63J-681X QRK126J-331X NRSA63J-681X QRK126J-331X NRSA63J-224X QRT029J-R47 NRSA63J-221X NRSA63D-332X NRSA63D-133X NRSA63D-133X NRSA63J-471X NRSA63J-471X NRSA63J-471X NRSA63J-473X NRSA63J-473X NRSA63J-472X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-154X NRSA63J-154X NRSA63J-102X QRK126J-331X	UNF WW RESISTOR UNF C RESISTOR UNF C RESISTOR OMF RESISTOR OMF RESISTOR MG RESISTOR	5.6Ω 7W K 470kΩ 1/2W J 68kΩ 1/2W J 82kΩ 2W J 82kΩ 2W J 1.2kΩ 1/16W J 680Ω 1/16W J 330Ω 1/2W J 220kΩ 1/16W J 0.47Ω 2W J 220Ω 1/16W D 3.3kΩ 1/16W D 3.3kΩ 1/16W D 3.3kΩ 1/16W D 47kΩ 1/16W J 3.3kΩ 1/16W J 47kΩ 1/16W J 47kΩ 1/16W J 10Ω 1/16W J 0Ω 1/16W J 0Ω 1/16W J 0Ω 1/16W J 150kΩ 1/16W D 150kΩ 1/16W D 330Ω 1/16W D
L9341 L9342 T9301	QQL26AK-100Z QQL26AK-100Z QQS0233-001	CHOKE COIL CHOKE COIL SW TRANSF	10uH K 10uH K
CN93AC CN93AF CN93B2	WJK0168-001A QGA2501C5-06Z QGA7901C1-02 QMF51D2-2R5-J1 QRZ9023-1R0 QRZ9021-100 LC31214-001A CEHT11B-002QS CEHT11B-002QS QQR0679-001 QQR1084-002 PC123Y22 QSK0117-001	E-SI C WIRE C-B CONNECTOR CONNECTOR FUSE FUSIBLE RESISTO FUSI RESISTOR HEAT SINK/FE-P/ HEAT SINK HEAT SINK FERRITE BEADS LINE FILTER PHOTO COUPLER RELAY	W-B (1-6) W-B (1-2) 2.5A AC250V 1Ω 10Ω 1W J

DD POWER P.W. BOARD ASS'Y (SSB-9479A-M2)

⚠Ref No.	Part No.	Part Name	Description Local
IC9401	PQ12RD11	IC	
IC9501	PQ1CY1032Z-W	IC	
IC9601	PQ1CY1032Z-W	IC	
Q9401	2SC3928A/QR/-X	TRANSISTOR	
Q9501	2SC3928A/QR/-X	TRANSISTOR	
Q9601	2SC3928A/QR/-X	TRANSISTOR	
D9401	MA111-X	SI DIODE	
D9402	MA111-X	SI DIODE	
D9403	MA111-X	SI DIODE	
D9404	MA111-X	SI DIODE	
D9501	EC30HA03L-X	SB DIODE	
D9502	PTZ3.9B-X	CHIP ZENER DIODE	
D9601	EC30HA03L-X	SB DIODE	
D9602	PTZ3.9B-X	CHIP ZENER DIODE	
C9401 C9402 C9403 C9404 C9501 C9502 C9503 C9504 C9505 C9601 C9603 C9604	QETN1EM-476Z QETN1CM-476Z QETN1AM-477Z QETN1EM-476Z QETN1EM-108Z QFVF1HJ-224Z QETN0JM-108Z QETN0JM-477Z QETN0JM-477Z QETN0JM-477Z QETN1EM-108Z QFVF1HJ-334Z QETN0JM-108Z QETN0JM-108Z QETN0JM-108Z QETN0JM-477Z	E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR MF CAPACITOR E CAPACITOR MF CAPACITOR E CAPACITOR E CAPACITOR	47uF 25V M 47uF 16V M 47uF 10V M 47uF 25V M 1000uF 25V M 0.22uF 50V J 1000uF 6.3V M 470uF 6.3V M 470uF 6.3V M 0.33uF 50V J 1000uF 6.3V M 470uF 6.3V M
R9401 R9402 R9403 R9404 R9405 R9406 R9407 R9501 R9503 R9506 R9508 R9510 R9611 R9603 R9606 R9608 R9610 R9611	NRSA63J-273X NRSA63J-473X NRSA63J-103X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-122X NRSA63D-182X NRSA63D-153X NRSA63J-153X NRSA63J-670X NRSA63J-273X NRSA63J-223X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X	MG RESISTOR	27kΩ 1/16W J 47kΩ 1/16W J 10kΩ 1/16W J 1kΩ 1/16W J 3.3kΩ 1/16W J 220Ω 1/16W J 1.8kΩ 1/16W D 1.2kΩ 1/16W D 1.2kΩ 1/16W D 0Ω 1/16W J 33kΩ 1/16W J 47kΩ 1/16W J 22kΩ 1/16W J 1kΩ 1/16W D 0Ω 1/16W J 22kΩ 1/16W J
L9501 L9502 L9503 L9504 L9601 L9602 L9603	QQL26AK-220Z QQR1401-001 QQL26AK-220Z QQL26AK-100Z QQL26AK-220Z QQR1401-001 QQL26AK-100Z	CHOKE COIL	22uH K 22uH K 10uH K 22uH K 10uH K
CN94AC	QGA2501C1-09	CONNECTOR	W-B (1-9)
CN94AD	WJK0162-001A	E-SI C WIRE C-B	
CN94AE	WJK0163-001A	E-SI C WIRE C-B	
AFR9401	QRZ9009-100	FUSI RESISTOR	

SPEAKER INPUT P.W. BOARD ASS'Y (SSB0A079A-M2)

⚠Ref No.	Part No.	Part Name	Description Loca
Q0601	2SC3311A/QR/-T	TRANSISTOR	
Q0602	2SC3311A/QR/-T	TRANSISTOR	
D0601	1SS355-X	SI DIODE	
D0602	1SS355-X	SI DIODE	
C0601	QEZ0206-335Z	BP E CAPACITOR	3.3uF 50V M
C0602	QEZ0206-335Z	BP E CAPACITOR	3.3uF 50V M
R0601	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J
R0602	NRSA63J-562X	MG RESISTOR	5.6kΩ 1/16W J
R0603	NRSA63J-472X	MG RESISTOR	4.7kΩ 1/16W J

ÆRef No.	Part No.	Part Name	Description Loca
R0604 R0605 R0606 R0608 R0609	NRSA63J-562X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	5.6kΩ 1/16W J 0Ω 1/16W J 0Ω 1/16W J 0Ω 1/16W J 0Ω 1/16W J
CN000M CN000S CN00S3 CN00S4 CN0CC1 J0601 RY0601 RY0602	QJB003-044024 QGA2501C5-08Z QGA2501F1-03 QGA2501C5-03Z QGA2501C5-04Z CEMT019-001 QSK0133-001 QSK0133-001	SIN ID C-B WIRE CONNECTOR CONNECTOR CONNECTOR CONNECTOR SPTERMINAL RELAY RELAY	W-B (1-8) W-B (1-3) W-B (1-3) W-B (1-4) SPEAKER INPUT

DEF OSC P.W. BOARD ASS'Y (SSB0H077A-M2)

Part Name

Description Local

▲Ref No. Part No.

IC101 IC102 IC161 IC163 IC164 IC212	LA7860M-X BA12FP-X AN5441SA-W TA78L005AP-T BA9756FS-X CXA1875AM-X	IC IC IC IC IC	
Q101 Q102 Q131 Q132 Q161 Q751 Q752 Q753	2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SD601A/QR/-X 2SC4632	TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR TRANSISTOR POW TRANSISTOR	
D181 D182 D221 D222 D223 D751 D752	MA111-X MA111-X 1SS355-X UDZS6.2B-X UDZS6.2B-X ES1F-LFG2 ES1F-LFG2	SI DIODE SI DIODE SI DIODE Z DIODE Z DIODE SI DIODE SI DIODE SI DIODE	
C102 C103 C104 C106 C107 C108 C109 C110 C111 C112 C113 C114 C115 C116 C117 C118 C120 C121 C122 C123 C124 C131 C135 C134 C135 C134 C135 C136 C161 C165 C163 C164 C165 C168 C169 C170 C172	NCB31HK-103X NCB31HK-103X NDC31HJ-561X NDC31HJ-102X NDC31HJ-102X QEKC1HM-475Z NCB31HK-103X NCB31HK-103X QETN1HM-225Z QETN1HM-225Z NDC21HJ-122X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NCB31HK-103X QTMN1CM-477Z NCB31HK-103X QEKC1EM-476Z QETN1CM-476Z QETN1CM-107Z NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HK-103X NCB31HJ-101X QETN1CM-105Z NCB31HK-103X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-102X NDC31HJ-103X NCB31HK-103X QETN1CM-108Z NCB31HK-103X QETN1CM-103X	C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR C C C	0.01uF 50V K 0.01uF 50V K 560pF 50V J 1000pF 50V J 1200pF 50V J 4.7uF 50V M 0.01uF 50V K 1000pF 50V M 2.2uF 50V M 1200pF 50V J 1000pF 50V J 1000pF 50V J 1000pF 50V J 1000pF 50V J 0.01uF 50V K 470uF 16V M 0.01uF 50V K 470uF 16V M 0.01uF 50V K 0.01uF 50V K 0.01uF 50V K 100pF 50V J 1uF 50V K 0.01uF 50V K 100pF 50V J 1uF 50V M 0.1uF 50V K 1000pF 50V J 1000pF 50V V 0.01uF 50V K 1000pF 50V J

⚠Ref No.	Part No.	Part Name	Description Local	Ref No.	Part No.	Part Name	Description Local
C173 C175 C177 C178 C179 C180 C181 C182 C186	NCB31HK-153X NCB31HK-152X QETN1CM-107Z NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31CK-104X NCB31HK-222X	C CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR	0.015uF 50V K 1500pF 50V K 100uF 16V M 0.1uF 16V K 0.1uF 16V K 0.1uF 16V K 0.1uF 16V K 0.1uF 16V K 0.1uF 16V K	R755 R756 R757 R758 R761 R762 R763 R764 R765	NRSA63J-333X NRSA63J-392X NRSA63J-392X QRZ0056-103Z QRE121J-184Y QRE121J-184Y QRE121J-184Y QRE121J-184Y QRE121J-184Y	MG RESISTOR MG RESISTOR MG RESISTOR COMP RESISTOR C RESISTOR	33kΩ 1/16W J 3.9kΩ 1/16W J 3.9kΩ 1/16W J 10kΩ 1/2W K 180kΩ 1/2W J 180kΩ 1/2W J 180kΩ 1/2W J 180kΩ 1/2W J 180kΩ 1/2W J 180kΩ 1/2W J
C187 C188 C190 C191 C212 C221 C503	QETN1CM-108Z NDC31HJ-821X QETN1HM-105Z NDC31HJ-561X QETN1HM-106Z QETN1HM-105Z QETN1CM-108Z	E CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR	1000uF 16V M 820pF 50V J 1uF 50V M 560pF 50V J 10uF 50V M 1uF 50V M 1000uF 16V M	L101 L103 L104 L105 T751	QQL01BK-470Z NQL092K-100X NQL092K-100X QQL01BK-101Z QQR1096-001	P COIL P COIL P COIL P COIL DAF TRANSF	47uH K 10uH K 10uH K 100uH K
C751 C752 C753 C761	QFLC1HJ-563Z QETN1EM-476Z QFZ0196-103 QFZ0122-682	M CAPACITOR E CAPACITOR MPP CAPACITOR MPP CAPACITOR	0.056uF 50V J 47uF 25V M 0.01uF 1.5kV H 6800pF 1.8kV H	CN00L CN010 CN0AB CN0S4	QUB572-18PPFX QGB1505K1-35 QGZ8001C1-03 QGA2501F1-03	SIN TWIST WIRE CONNECTOR CONNECTOR CONNECTOR	B-B (1-35) (1-3) W-B (1-3)
R101 R103 R104	NRSA63J-102X NRSA63J-681X NRSA63J-103X	MG RESISTOR MG RESISTOR MG RESISTOR	1kΩ 1/16W J 680Ω 1/16W J 10kΩ 1/16W J	RECEI	/ER P.W. BOA	ARD ASS'Y (SSB	0R379A-M2)
R105 R106 R107	NRSA63J-473X NRSA63J-123X NRSA63J-103X	MG RESISTOR MG RESISTOR MG RESISTOR	47kΩ 1/16W J 12kΩ 1/16W J 10kΩ 1/16W J	⚠Ref No.	Part No.	Part Name	Description Local
R109 R110 R111 R112 R113 R114 R116	NRSA63J-682X NRSA63J-223X NRVA63D-822X NRVA63D-182X NRVA63D-562X NRSA63J-222X NRVA02D-182X	MG RESISTOR MG RESISTOR CMF RESISTOR CMF RESISTOR CMF RESISTOR CMF RESISTOR MG RESISTOR CMF RESISTOR	6.8kΩ 1/16W J 22kΩ 1/16W J 8.2kΩ 1/16W D 1.8kΩ 1/16W D 5.6kΩ 1/16W D 2.2kΩ 1/16W J 1.8kΩ 1/10W D	IC0101 IC0201 IC0501 IC0531 IC0561 IC0701	L7805CP CXA2134Q-X RC4558D-X RC4558D-X CD4066BE M62320FP-X	IC IC IC IC IC	•
R117 R120 R121 R122 R123 R126 R129	NRSA63J-332X NRSA63J-183X NRSA63J-102X QRG01GJ-470 QRK126J-101X NRSA63J-103X NRVA63D-153X	MG RESISTOR MG RESISTOR MG RESISTOR OMF RESISTOR UNF C RESISTOR MG RESISTOR CMF RESISTOR	3.3kΩ 1/16W J 18kΩ 1/16W J 1kΩ 1/16W J 47Ω 1W J 100Ω 1/2W J 10kΩ 1/16W J 15kΩ 1/16W D	Q0101 Q0102 Q0103 Q0531 Q0532 Q0561	2SC3928A/QR/-X 2SA1530A/QR/-X 2SC3928A/QR/-X 2SC3928A/QR/-X 2SA1530A/QR/-X 2SA1530A/QR/-X	TRANSISTOR SI TRANSISTOR TRANSISTOR TRANSISTOR SI TRANSISTOR SI TRANSISTOR	
R131 R133 R134 R138 R139 R140 R141	NRSA63J-102X NRSA63J-151X NRSA63J-334X NRSA63J-103X NRSA63J-223X NRSA63J-103X NRSA63J-472X	MG RESISTOR	1kΩ 1/16W J 150Ω 1/16W J 330kΩ 1/16W J 10kΩ 1/16W J 22kΩ 1/16W J 10kΩ 1/16W J 4.7kΩ 1/16W J	Q0562 Q0563 Q0564 Q0565 Q0566 Q0701 Q0702	2SC3928A/QR/-X 2SA1530A/QR/-X 2SC3928A/QR/-X UN2212-X UN2212-X 2SC3928A/QR/-X 2SA1530A/QR/-X	TRANSISTOR SI TRANSISTOR TRANSISTOR DIGI TRANSISTOR DIGI TRANSISTOR TRANSISTOR SI TRANSISTOR	
R142 R143 R161 R162 R163 R164 R172 R173	NRSA63J-103X NRSA63J-471X NRSA63J-221X NRSA63J-221X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-472X NRSA63J-183X	MG RESISTOR	10kΩ 1/16W J 470Ω 1/16W J 220Ω 1/16W J 220Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 4.7kΩ 1/16W J 18kΩ 1/16W J	D0203 D0204 D0531 D0561 D0562 D0563 D0701	MA8082/M/-X MA8082/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X 1SS355-X 1SS355-X	Z DIODE Z DIODE Z DIODE Z DIODE Z DIODE SI DIODE SI DIODE SI DIODE	
R174 R175 R177 R178 R179 R180 R181 R182 R183 R186 R187 R188 R190 R192 R193 R197 R198 R217 R218 R219 R221 R222 R223 R224 R227 R230 R751	NRVA63D-392X NRVA63D-681X NRSA63J-123X NRSA63J-123X NRVA63D-562X NRVA63D-152X NRSA63J-072X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-101X NRSA63J-101X NRSA63J-332X NRVA63D-332X NRVA63D-332X NRVA63D-682X NRSA63J-101X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-102X NRSA63J-223X NRSA63J-223X NRSA63J-223X NRSA63J-223X	CMF RESISTOR CMF RESISTOR MG RESISTOR MG RESISTOR CMF RESISTOR CMF RESISTOR MG RESISTOR CMF RESISTOR CMF RESISTOR MG RESISTOR	3.9kΩ 1/16W D 680Ω 1/16W J 12kΩ 1/16W J 330Ω 1/16W J 5.6kΩ 1/16W D 0Ω 1/16W D 0Ω 1/16W J 47kΩ 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 1kΩ 1/16W J 1κΩ 1/16W J 2.00 1/16W J 100Ω 1/16W J 100Ω 1/16W J 2.00 1/16W J 100Ω 1/16W J	C0104 C0105 C0107 C0201 C0202 C0203 C0204 C0205 C0206 C0207 C0208 C0209 C0211 C0212 C0213 C0214 C0215 C0216 C0217 C0218 C0217 C0218 C0219 C0220 C0221 C0222 C0223 C0223 C0224	QETN1HM-106Z QETN1CM-477Z QETN1CM-107Z QENC1HM-475Z NCB31EK-104X QENC1HM-475Z NCB31HK-562X NCB31HK-562X NCB31HK-123X QETN1HM-105Z QETN1HM-475Z QETN1HM-475Z QETN1HM-475Z QETN1CM-107Z QENC1HM-475Z QENC1HM-475Z NCB31HK-272X NCB31HK-473X QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-475Z NCB31HK-473X QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-106Z QETN1HM-175Z NCF31CZ-104X QENC1HM-475Z NCF31CZ-104X NCB31HK-223X	E CAPACITOR E CAPACITOR E CAPACITOR BP E CAPACITOR BP E CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR BP E CAPACITOR C CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR E CAPACITOR C CAPACITOR BP E CAPACITOR C CAPACITOR BP E CAPACITOR C CAPACITOR	10uF 50V M 470uF 16V M 100uF 16V M 100uF 16V M 0.1uF 25V K 4.7uF 50V M 5600pF 50V K 0.012uF 50V K 1uF 50V M 4.7uF 50V M 10uF 50V M 4.7uF 50V M 4.7uF 50V M 2700pF 50V K 0.047uF 50V M 2700pF 50V K 0.047uF 50V M 4.7uF 50V M 0.1uF 50V M 0.1uF 50V M
						C CAPACITOR C CAPACITOR BP E CAPACITOR C CAPACITOR	

ΔRef No.	Part No.	Part Name	Description Local	ΔRef No.	Part No.	Part Name	Description Local
C0228 C0501 C0502 C0503 C0504	NCB31HK-472X QETN1HM-106Z QETN1EM-476Z QENC1HM-475Z QENC1HM-475Z	C CAPACITOR E CAPACITOR E CAPACITOR BP E CAPACITOR BP E CAPACITOR	4700pF 50V K 10uF 50V M 47uF 25V M 4.7uF 50V M 4.7uF 50V M	R0707 R0708 R0709 R0710 R0711	NRSA63J-103X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X	MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR MG RESISTOR	10kΩ 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J 100Ω 1/16W J
C0531 C0532	QETN1HM-106Z NCB31CK-683X	E CAPACITOR C CAPACITOR	10uF 50V M 0.068uF 16V K	L0102	QRN143J-0R0X	C RESISTOR	0Ω 1/4W J
C0533 C0534 C0535 C0536	QETN1EM-476Z NCB31HK-183X QETN1EM-476Z QENC1HM-106Z	E CAPACITOR C CAPACITOR E CAPACITOR BP E CAPACITOR	47uF 25V M 0.018uF 50V K 47uF 25V M 10uF 50V M	CN0005 CN0006 CN00S4	QGB1505K1-15 QGB1505K1-35 QJB003-033823	CONNECTOR CONNECTOR SIN ID C-B WIRE	B-B (1-15) B-B (1-35)
C0537 C0561 C0562 C0563 C0701	QENC1HM-106Z QETN1HM-105Z QETN1HM-105Z QETN1EM-476Z QETN1EM-476Z	BP E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR	10uF 50V M 1uF 50V M 1uF 50V M 47uF 25V M 47uF 25V M	CN0CC1 J0501 △TU0101	QJB003-043624 QNN0550-001 QAU0303-001	SIN ID C-B WIRE PIN JACK TUNER	L/R OUT
C0702 C0703 C0704	NCF31CZ-104X NDC31HJ-820X NDC31HJ-820X	C CAPACITOR C CAPACITOR C CAPACITOR	0.1uF 16V Z 82pF 50V J 82pF 50V J		CONTROL P.	W. BOARD ASS	Υ
R0102 R0103 R0104	NRSA63J-0R0X NRSA63J-473X NRSA63J-221X	MG RESISTOR MG RESISTOR MG RESISTOR	0Ω 1/16W J 47kΩ 1/16W J 220Ω 1/16W J	Ref No.	Part No.	Part Name	Description Local
R0105 R0106	NRSA63J-221X NRSA63J-103X	MG RESISTOR MG RESISTOR	220Ω 1/16W J 10kΩ 1/16W J	IC0702	MM1437AF-X	IC	Regulator+Reset
R0107 R0109 R0110	NRSA63J-0R0X NRSA63J-103X NRSA63J-0R0X	MG RESISTOR MG RESISTOR MG RESISTOR	0Ω 1/16W J 10kΩ 1/16W J 0Ω 1/16W J	Q0701 Q0702	2SC3928A/QR/-X 2SC3928A/QR/-X	SI TRANSISTOR SI TRANSISTOR	
R0111 R0117 R0118 R0201 R0202 R0203 R0204	NRSA63J-0R0X NRSA63J-103X NRSA63J-273X NRSA63J-221X NRSA63J-221X NRSA63J-105X NRSA63J-104X	MG RESISTOR	0Ω 1/16W J 10kΩ 1/16W J 27kΩ 1/16W J 220Ω 1/16W J 220Ω 1/16W J 1MΩ 1/16W J	D0402 D0403 D0404 D0405 D0406 D0701	MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X MA8100/M/-X SELU5E20C	Z DIODE Z DIODE Z DIODE Z DIODE Z DIODE LED	POWER
R0204 R0205 R0206 R0207	NRSA63J-123X NRSA63J-682X	MG RESISTOR MG RESISTOR	100kΩ 1/16W J 12kΩ 1/16W J 6.8kΩ 1/16W J	D0703 D0704 D0735	MA8068-X MA8068-X MA8100/M/-X	Z DIODE Z DIODE Z DIODE	
R0211 R0213 R0214 R0217 R0218 R0501 R0502 R0503	NRSA63F-623X NRSA63J-332X NRSA63J-302X NRSA63J-392X NRSA63J-221X NRSA63J-221X NRSA63J-472X NRSA63J-153X NRSA63J-153X	MG RESISTOR	62kΩ 1/16W F 3.3kΩ 1/16W J 3kΩ 1/16W J 3.9kΩ 1/16W J 220Ω 1/16W J 220Ω 1/16W J 4.7kΩ 1/16W J 4.7kΩ 1/16W J 15kΩ 1/16W J	C0442 C0443 C0444 C0445 C0446 C0711 C0712 C0713	QETN1HM-105Z QETN1HM-105Z QETN1HM-106Z QETN1HM-106Z QFLC1HJ-103Z QETN1CM-336Z NCB31CK-104X NCB31CK-104X	E CAPACITOR E CAPACITOR E CAPACITOR E CAPACITOR M CAPACITOR C CAPACITOR C CAPACITOR C CAPACITOR	1uF 50V M 1uF 50V M 10uF 50V M 10uF 50V M 0.01uF 50V J 33uF 16V M 0.1uF 16V K 0.1uF 16V K
R0504 R0505 R0506 R0507 R0508 R0531 R0532 R0533 R0534 R0535 R0536 R0537 R0538 R0539 R0540 R0541 R0542 R0543 R0562 R0563 R0564 R0565 R0566 R0565 R0566	NRSA63J-153X NRSA63J-123X NRSA63J-123X NRSA63J-123X NRSA63J-123X NRSA63J-123X NRSA63J-221X NRSA63J-392X NRSA63J-392X NRSA63J-332X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-103X NRSA63J-121X NRSA63J-221X NRSA63J-221X NRSA63J-221X NRSA63J-823X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-152X NRSA63J-152X	MG RESISTOR	15kΩ 1/16W J 12kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 10kΩ 1/16W J 220Ω 1/16W J 82kΩ 1/16W J 3.9kΩ 1/16W J 3.9kΩ 1/16W J 10kΩ 1/16W J 20Ω 1/16W J 220Ω 1/16W J 220Ω 1/16W J 220Ω 1/16W J 82kΩ 1/16W J 1.5kΩ 1/16W J 220Ω 1/16W J 220Ω 1/16W J 220Ω 1/16W J 220Ω 1/16W J 1.5kΩ 1/16W J 1.5kΩ 1/16W J	R0401 R0402 R0403 R0404 R0405 R0411 R0412 R0417 R0418 R0419 R0702 R0703 R0706 R0707 R0708 R0711 R0712 R0732 R0749 R0750 R0751	NRSA63J-750X NRSA63J-224X NRSA63J-224X NRSA63J-224X NRSA63J-750X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-0R0X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-101X NRSA63J-333X NRSA63J-333X NRSA63J-333X NRSA63J-352X NRSA63J-562X NRSA63J-153X NRSA63J-153X NRSA63J-153X	MG RESISTOR	75Ω 1/16W J 220kΩ 1/16W J 220kΩ 1/16W J 75Ω 1/16W J 75Ω 1/16W J 0Ω 1/16W J 30Ω 1/16W J 33kΩ 1/16W J 35kΩ 1/16W J 5.6kΩ 1/16W J 5.6kΩ 1/16W J
R0567 R0568 R0569 R0570 R0573 R0574 R0575 R0577 R0579 R0580 R0701 R0702 R0703 R0704 R0705 R0706	NRSA63J-103X NRSA63J-332X NRSA63J-332X NRSA63J-332X NRSA63J-223X NRSA63J-562X NRSA63J-562X NRSA63J-0R0X NRSA63J-104X NRSA63J-104X NRSA63J-101X NRSA63J-333X NRSA63J-333X NRSA63J-332X NRSA63J-103X NRSA63J-103X	MG RESISTOR	10kΩ 1/16W J 3.3kΩ 1/16W J 10kΩ 1/16W J 3.3kΩ 1/16W J 22kΩ 1/16W J 6.8kΩ 1/16W J 5.6kΩ 1/16W J 0Ω 1/16W J 100kΩ 1/16W J 100kΩ 1/16W J 33kΩ 1/16W J 33kΩ 1/16W J 33kΩ 1/16W J 10kΩ 1/16W J	J0401 LC0402 LC0403 S0701 S0702 S0703 S0704 S0705 S0706 S0707	QNZ0438-001 QQR1199-001 QQR1199-003 QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z QSW0619-003Z	AV JACK EMI FILTER EMI FILTER TACT SWITCH	S/V/L/R IN POWER MENU CH- CH+ VOL- VOL+ SUPER FOCUS

FRONT RELAY P.W. BOARD ASS'Y (SSB0L268-M2)

△Ref No.	Part No.	Part Name	Description Local
CN0BG	QGA2501C1-09	CONNECTOR	W-B (1-9)
CN000G	QGF1201C2-17	CONNECTOR	FFC/FPC (1-17)
CN000H	QGF1201C2-13	CONNECTOR	FFC/FPC (1-13)

DIGITAL INPUT MODULE P.W. BOARD ASS'Y (65WP94CP-S)

⚠Ref No.	Part No.	Part Name	Description Local
MD001	65WP94CP-S	DIGITAL INPUT MODULE PWB	

DIGITAL CONVERGENCE MODULE P.W. BOARD ASS'Y (SSB0K078A-M2)

⚠Ref No.	Part No.	Part Name	Description Local
MD001	SSB0K078A-M2	DIGITAL CONVERGENCE	MODULE PWB

MI-COM & DIST MODULE P.W. BOARD ASS'Y (SSB0D080A-M2)

ÆRef No.	Part No.	Part Name	Description	Local
MD001	SSB0D080A-M2	MI-COM & DIST MODULE PWB		

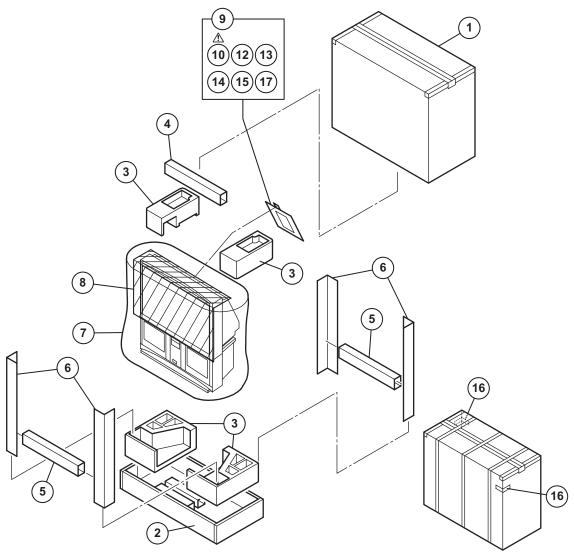
ATSC TUNER UNIT (QAU0309-001)

⚠Ref No.	Part No.	Part Name	Description Local
MD001	QAU0309-001	ATSC TUNER UNIT	

REMOTE CONTROL UNIT PARTS LIST (RM-C12G-1H)

⚠	Ref.No.	Part No.	Part Name	Description	Local
		UR77EC1403A	BATTERY COVER		

PACKING



PACKING PARTS LIST

⚠	Ref.No.	Part No.	Part Name	Description	Local
	1 2 3	LC11253-003B-A LC32325-001A-A LC11512-002C-A	PACKING CASE BOTTOM CASE CUSHION ASSY	4pcs in 1set	
	4 5 6	LC32287-001A-A LC32288-001A-A LC32286-001A-A	PROTECT PAD T PROTECT PAD F PAD	(x2) (x4)	
A	7 8 9	CP30056-012-A CP30055-008-A QPA02503505	POLY BAG TOP COVER POLY BAG	25cm x 35cm	
⚠	10 12 13 14 15	LCT1468-001A-A GQ40028-001A-A BT-51028-2Q BT-52006-1Q RM-C12G-1H	INST BOOK INSERT SHEET REGISTRATION C WARRANTY CARD REMOCON UNIT		
	16 17	CM36616-001-A	CORNER LABEL BATTERY	2pcs in 1set R6P/AA(x2)	



SCHEMATIC DIAGRAMS

REAR PROJECTION TELEVISION

AV-65WP94/HA

CD-ROM No.SML200401

BASIC CHASSIS

SB3





AV-65WP94/HA

STANDARD CIRCUIT DIAGRAM

■ NOTE ON USING CIRCUIT DIAGRAMS

1.SAFETY

The components identified by the △ symbol and shading are critical for safety. For continued safety replace safety ciritical components only with manufactures recommended parts.

2.SPECIFIED VOLTAGE AND WAVEFORM VALUES

The voltage and waveform values have been measured under the following conditions.

(1)Input signal : Colour bar signal

(2) Setting positions of each knob/button and

variable resistor : Original setting position

when shipped

(3)Internal resistance of tester : DC $20k\Omega/V$

(4)Oscilloscope sweeping time $\hspace{.1in}: H \hspace{.1in} \Rightarrow \hspace{.1in} 20 \mu s \hspace{.1in} / \hspace{.1in} div$

: V \Rightarrow 5ms / div

: Othters \Rightarrow Sweeping time is

specified

(5) Voltage values : All DC voltage values

* Since the voltage values of signal circuit vary to some extent according to adjustments, use them as reference values.

3.INDICATION OF PARTS SYMBOL [EXAMPLE]

• In the PW board : R1209 → R209

4.INDICATIONS ON THE CIRCUIT DIAGRAM (1)Resistors

Resistance value

No unit $\begin{array}{c} : \left[\ \Omega \ \right] \\ \mathsf{K} \\ \mathsf{M} \\ \end{array} \begin{array}{c} : \left[\mathsf{k} \ \Omega \ \right] \\ : \left[\mathsf{M} \ \Omega \ \right] \end{array}$

Rated allowable power

No indication : 1/16 [W]
Others : As specified

Type

No indication : Carbon resistor

OMR : Oxide metal film resistor
MFR : Metal film resistor
MPR : Metal plate resistor
UNFR : Uninflammable resistor
FR : Fusible resistor

* Composition resistor 1/2 [W] is specified as 1/2S or Comp.

(2)Capacitors

Capacitance value

 $\begin{array}{lll} \mbox{1 or higher} & : [pF] \\ \mbox{less than 1} & : [\mu F] \end{array}$

Withstand voltage

No indication : DC50[V]

Others : DC withstand voltage [V]
AC indicated : AC withstand voltage [V]

* Electrolytic Capacitors

47/50[Example]: Capacitance value [μ F]/withstand voltage[V]

Type

No indication : Ceramic capacitor

MM : Metalized mylar capacitor

PP : Polypropylene capacitor

MPP : Metalized polypropylene capacitor

MF : Metalized film capacitor
TF : Thin film capacitor
BP : Bipolar electrolytic capacitor

TAN : Tantalum capacitor

(3)Coils

No unit : [µH]
Others : As specified

(4)Power Supply



*Respective voltage values are indicated

(5)Test point



(6)Connecting method



(7)Ground symbol

5.NOTE FOR REPAIRING SERVICE

This model's power circuit is partly different in the GND. The difference of the GND is shown by the LIVE : (\bot) side GND and the ISOLATED(NEUTRAL) : (\bot) side GND. Therefore, care must be taken for the following points.

- (1)Do not touch the LIVE side GND or the LIVE side GND and the ISOLATED(NEUTRAL) side GND simultaneously. if the above caution is not respected, an electric shock may be caused. Therefore, make sure that the power cord is surely removed from the receptacle when, for example, the chassis is pulled out.
- (2)Do not short between the LIVE side GND and ISOLATED(NEUTRAL) side GND or never measure with a measuring apparatus measure with a measuring apparatus (oscilloscope, etc.) the LIVE side GND and ISOLATED(NEUTRAL) side GND at the same time. If the above precaution is not respected, a fuse or any parts will be broken.
- Since the circuit diagram is a standard one, the circuit and circuit constants may be subject to change for improvement without any notice.

NOTE

Due improvement in performance, some part numbers show in the circuit diagram may not agree with those indicated in the part list.

When ordering parts, please use the numbers that appear in the Parts List.

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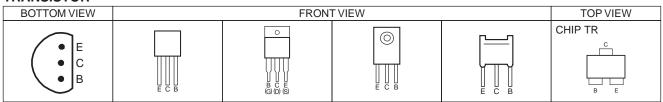
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R CRT SOCKET PWB CIRCUIT DIAGRAM	
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USING P.W. BOARD

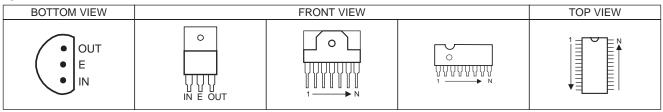
PWB ASS'Y name	AV-65WP94/HA
RECEIVER P.W. BOARD	SSB0R379A-M2
MAIN P.W. BOARD	SSB-1079A-M2
R CRT SOCKET P.W. BOARD	SSB-3177A-M2
G CRT SOCKET P.W. BOARD	SSB-3277A-M2
B CRT SOCKET P.W. BOARD	SSB-3377A-M2
VM P.W. BOARD	SSB-7277A-M2
POWER & DEF P.W. BOARD	SSB-2079A-M2
DEF OSC P.W. BOARD	SSB0H077A-M2
CONVERGENCE OUT P.W. BOARD	SSB-5079A-M2
SUB POWER P.W. BOARD	SSB-9379A-M2
DD POWER P.W. BOARD	SSB-9479A-M2
LINE FILTER P.W. BOARD	SSB-9079A-M2
SPEAKER INPUT P.W. BOARD	SSB0A079A-M2
FRONT RELAY P.W. BOARD	SSB0L268A-M2
REMOCON SENSOR P.W. BOARD	SSB-8068A-M2
FRONT CONTROL P.W. BOARD	SSB0L077A-M2

SEMICONDUCTOR SHAPES

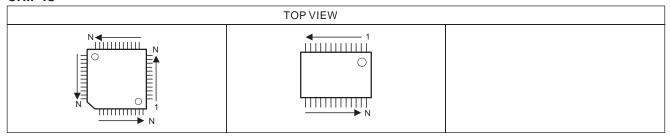
TRANSISTOR



IC

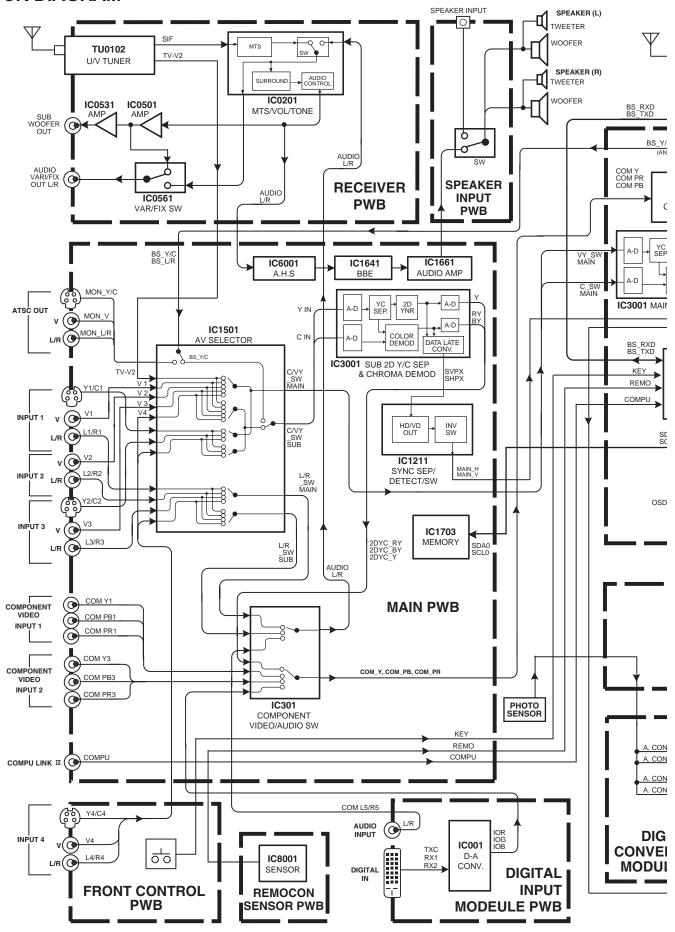


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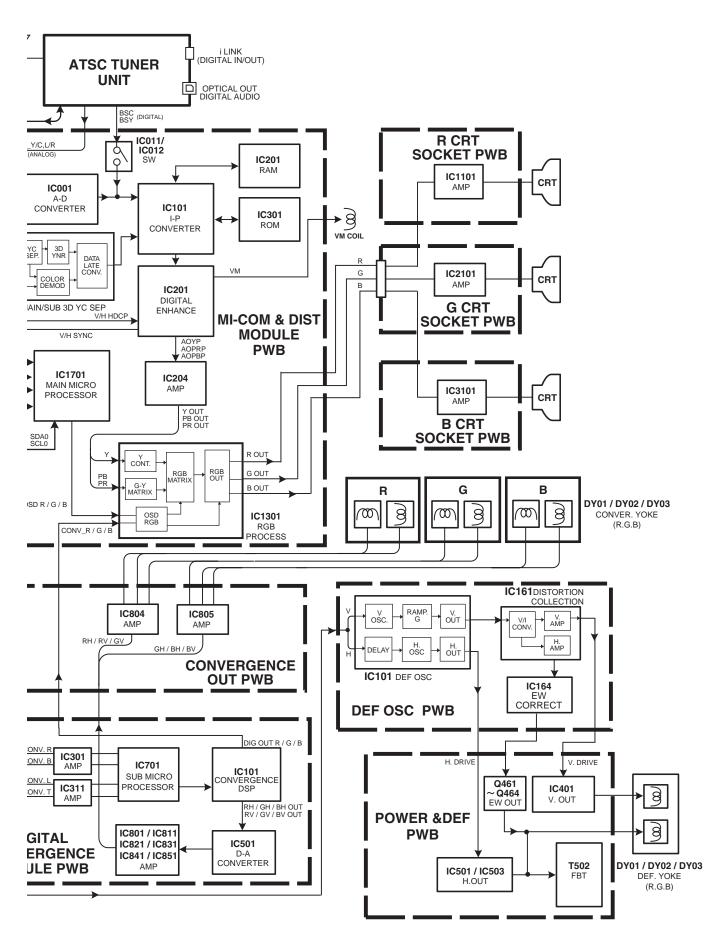


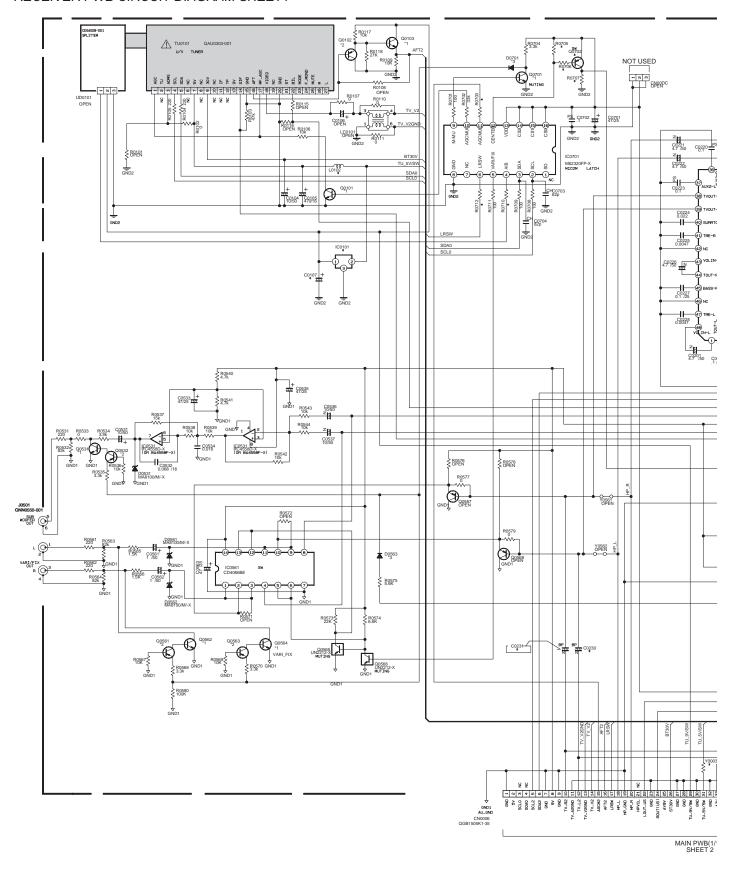
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BLOCK DIAGRAM

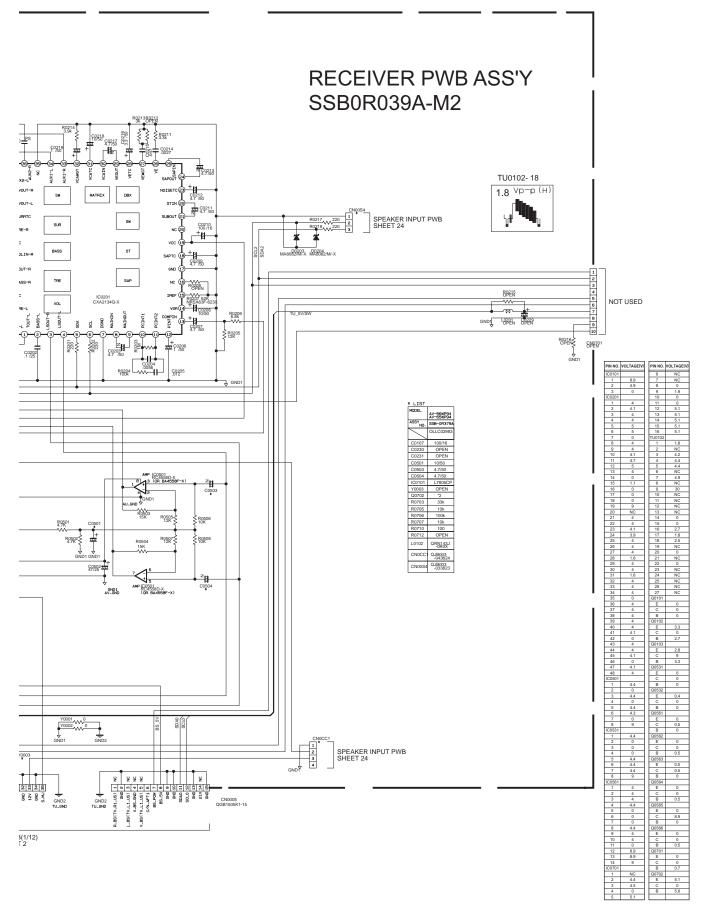


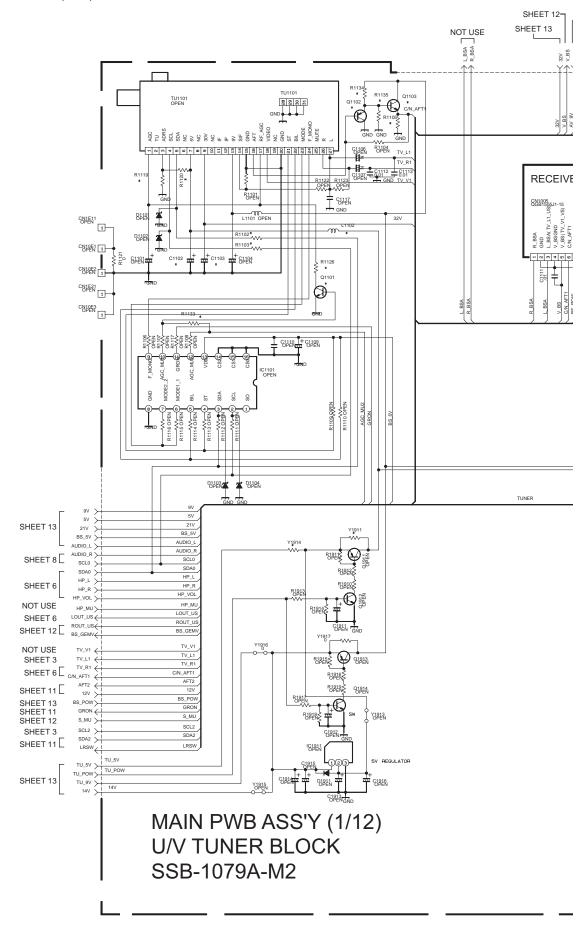
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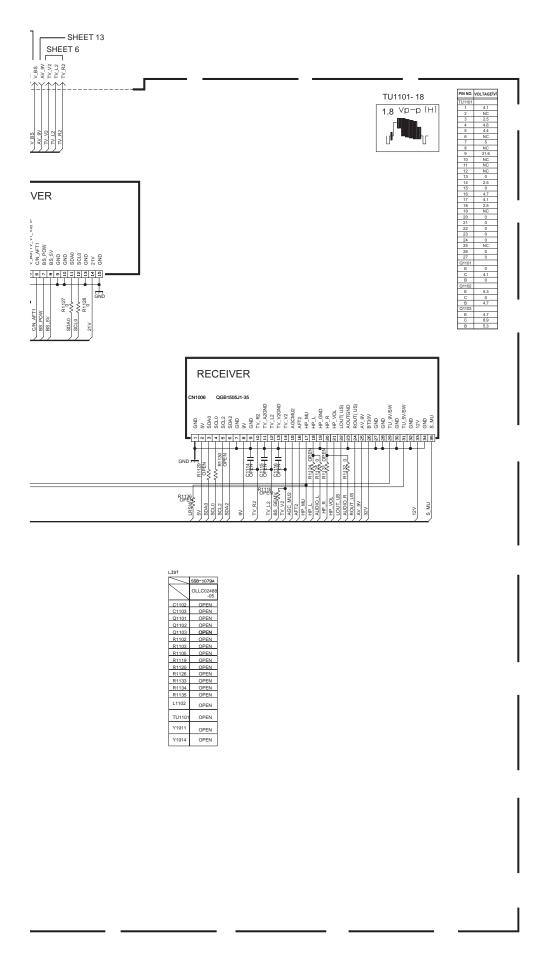


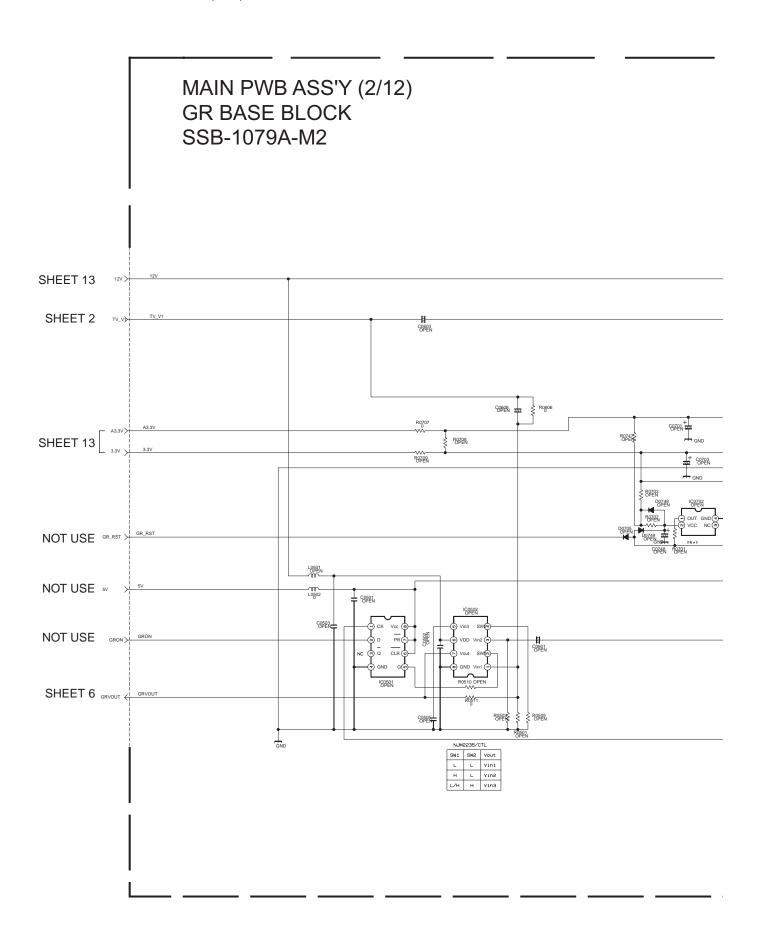
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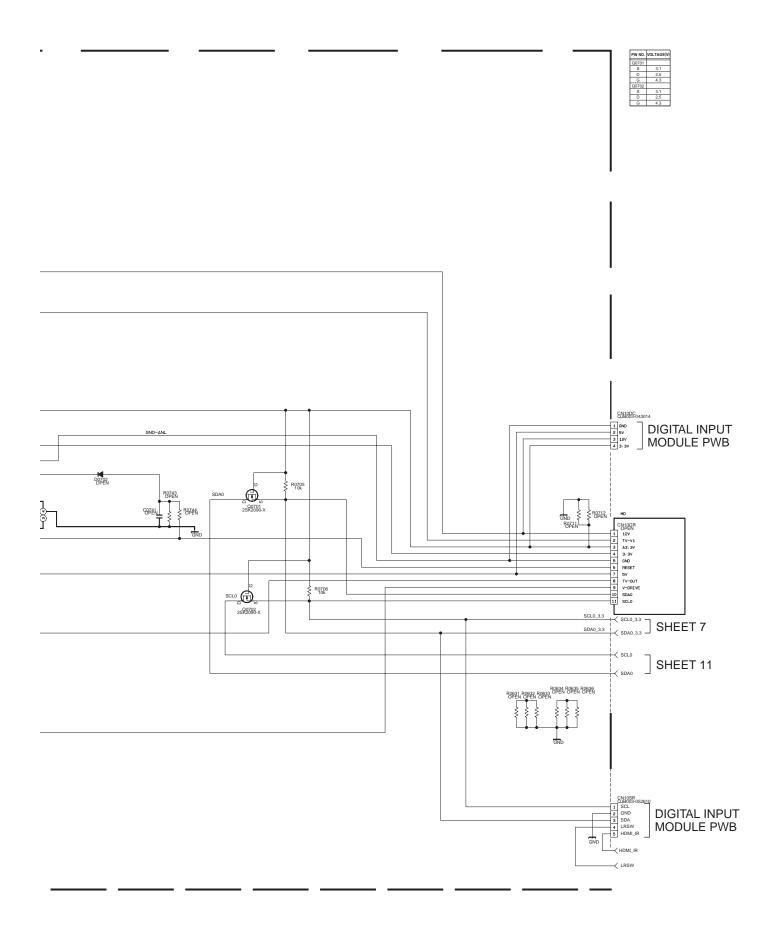


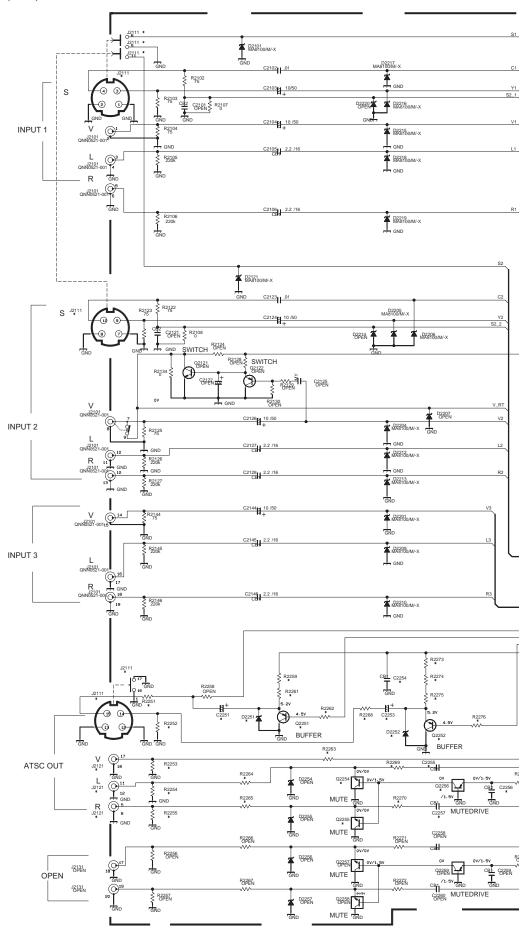
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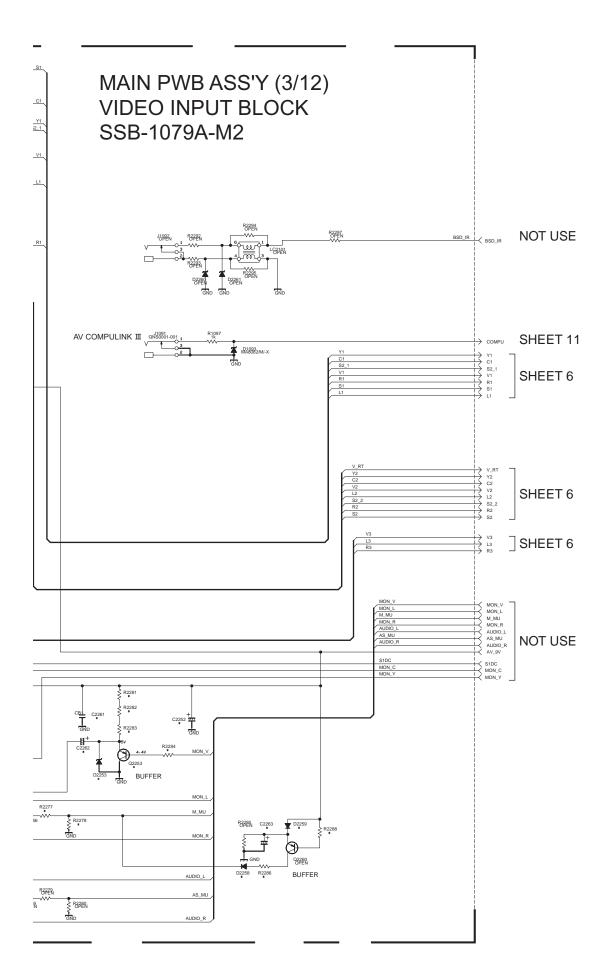


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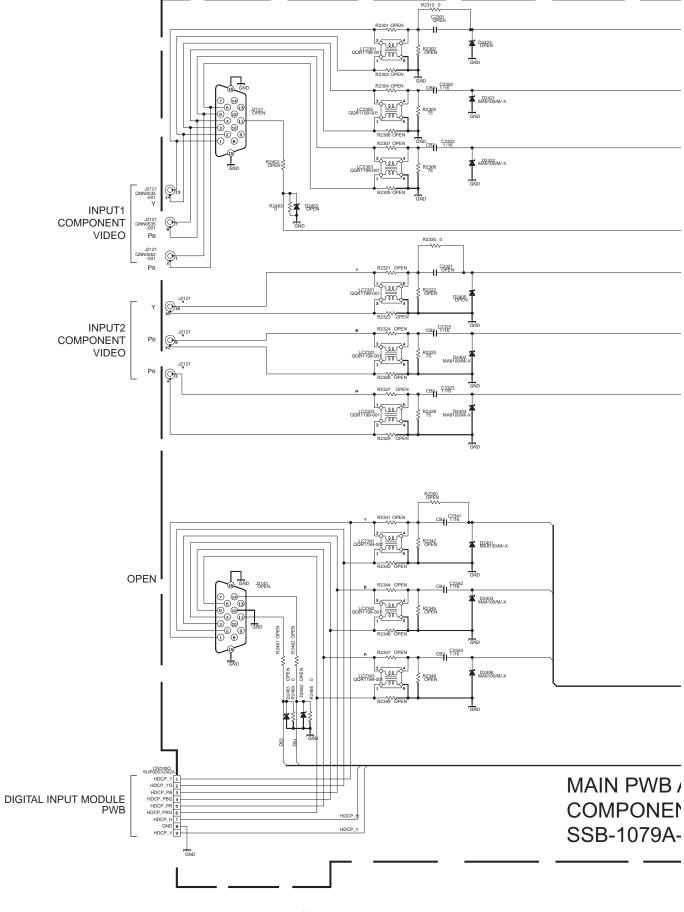




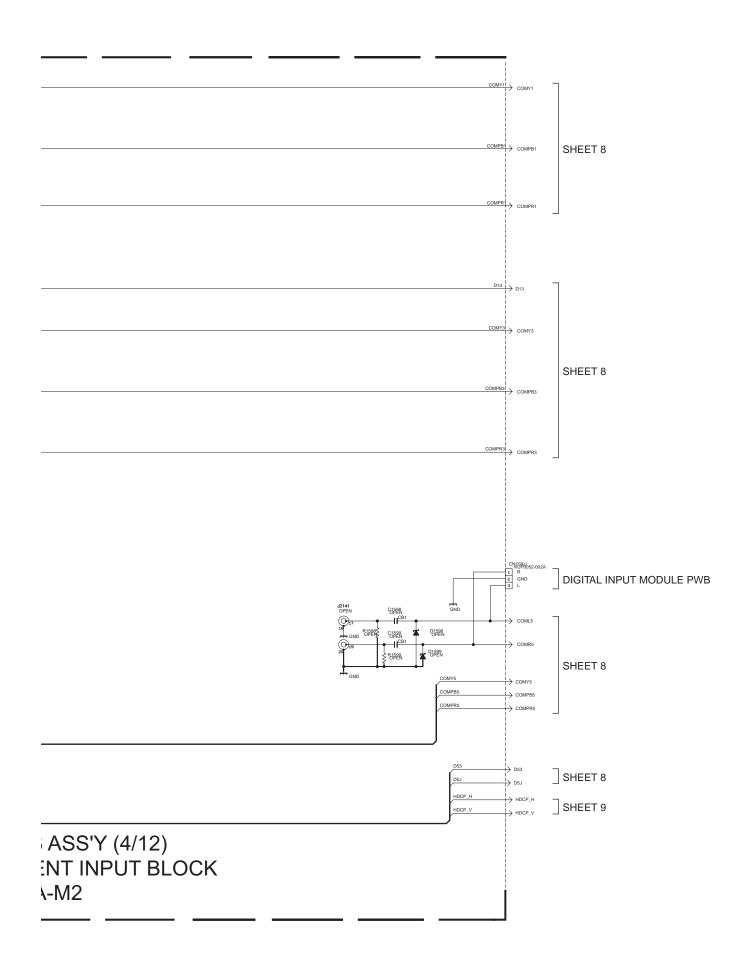
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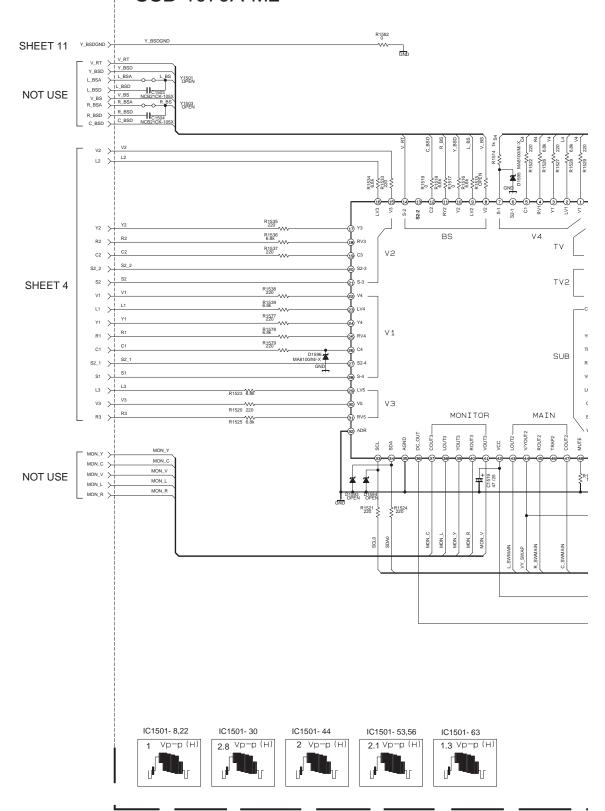
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C2251	1/50
C2252	1/50
C2253	1000/10
C2262	1000/10
C2263	
	2.2/16
C2256	1/16
C2257	2.2/16
C2261	2.2/16
Q2260	*2
R2251	68
R2252	2.2k
R2253	2.2k
R2254	22k
R2255	22k
R2259	150
R2261	150
R2262	100
R2263	68
R2264	390
R2265	390
R2268	68
R2269	470
P2270	470
D2272	47
D2274	47
D2276	47
R2273 R2274 R2275 R2276 R2277	100
R2277	1k
R2278	39k
R2281	47
R2282	47
R2283	47
R2284	100
R2286	100 33k
R2288	56k
J2111	QND0105 -001
D2251	MA8100 /M/-X
D2252	MA8100 /W-X
D2253	MA8100 /M/-X
D2258	MA111-X
D2259	MA111-X
Q2251	KTA1267
Q2252	KTA1267
Q2253	KTA1267 YG/-T
Q2254	UN2226-
Q2255	UN2226-
Q2256	UN2110-
	QNN0562



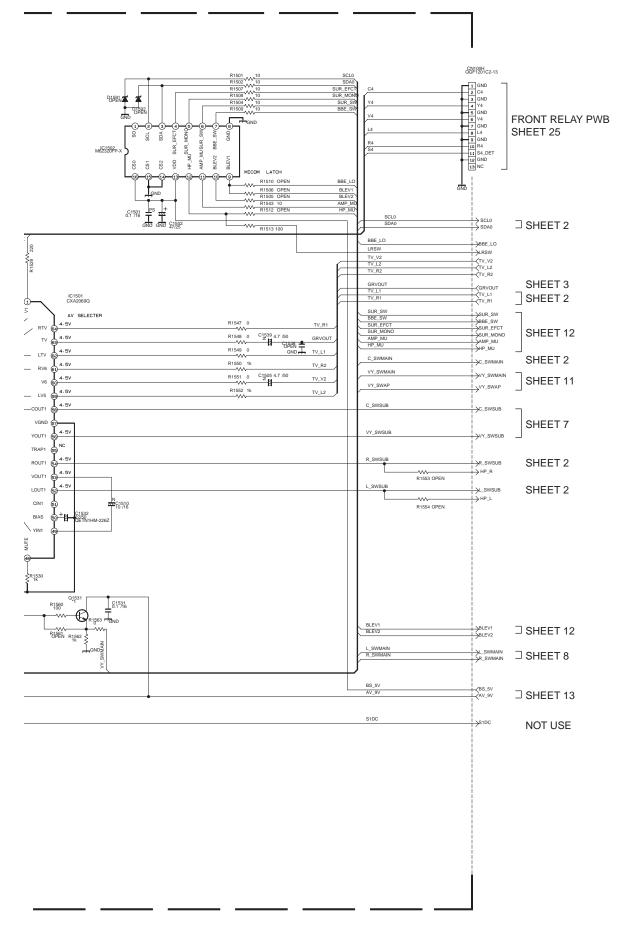
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MAIN PWB ASS'Y (5/12) SIGNAL SELECT BLOCK SSB-1079A-M2



2-17 No.52168

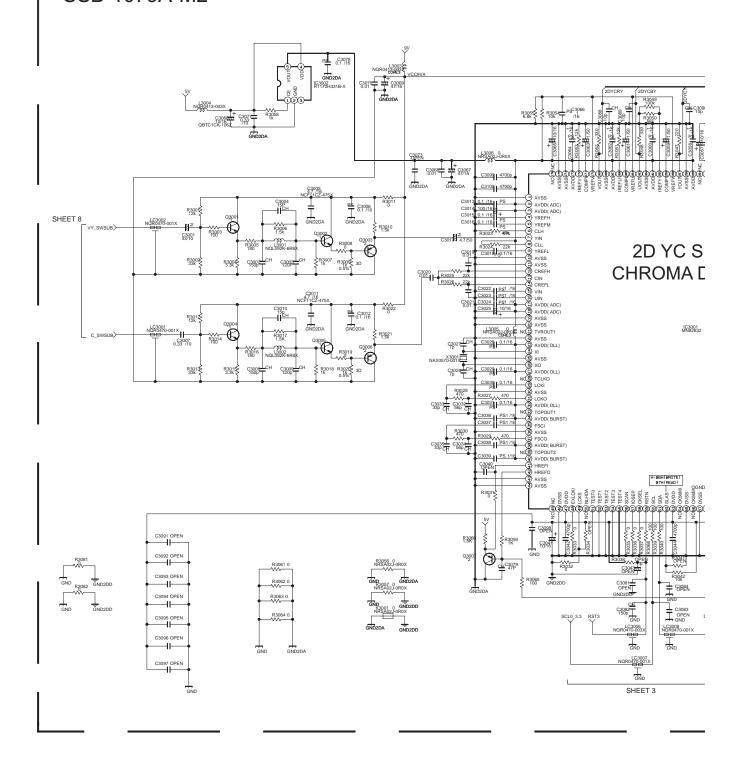


PIN NO, WOLTAGE(V)

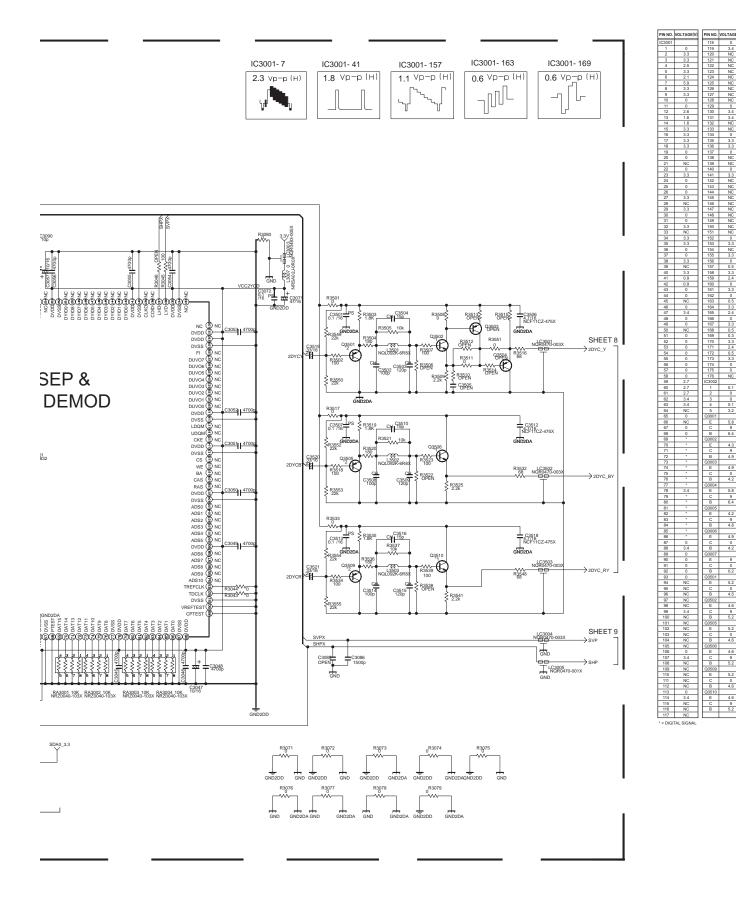
C15901

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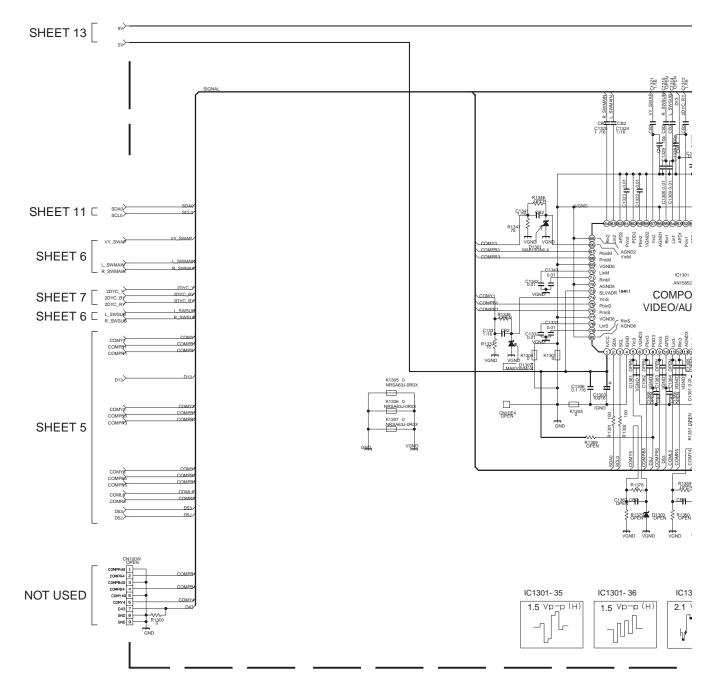
MAIN PWB ASS'Y (6/12) 2DYC BLOCK SSB-1079A-M2



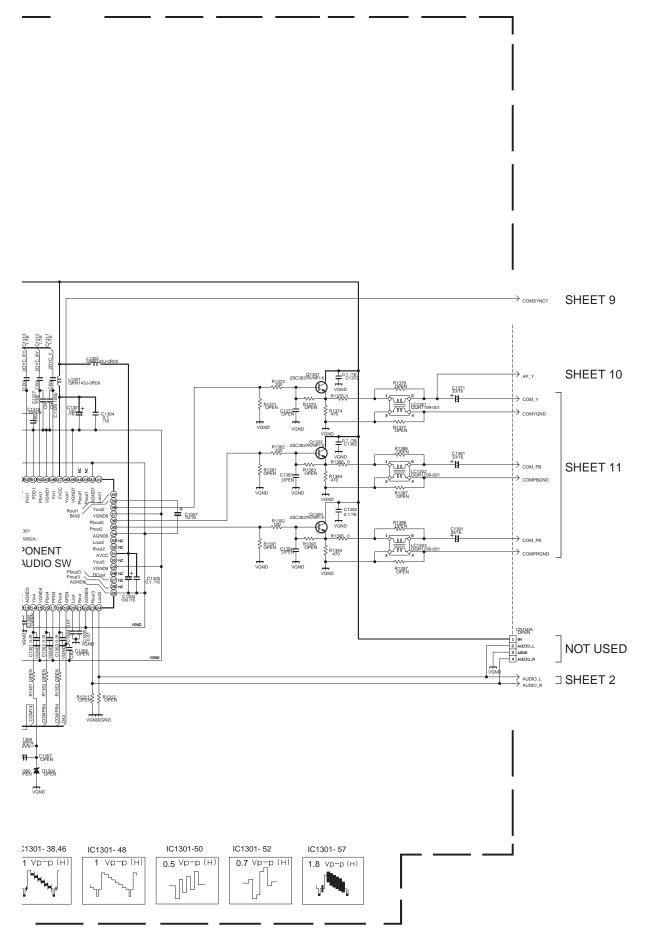
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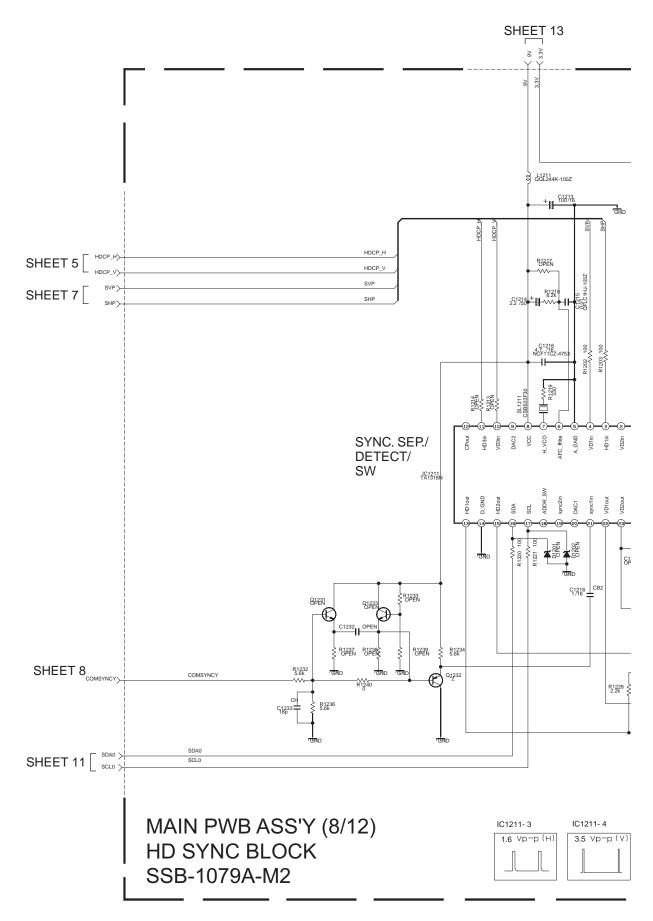


MAIN PWB ASS'Y (7/12) COMPONENT SW BLOCK SSB-1079A-M2

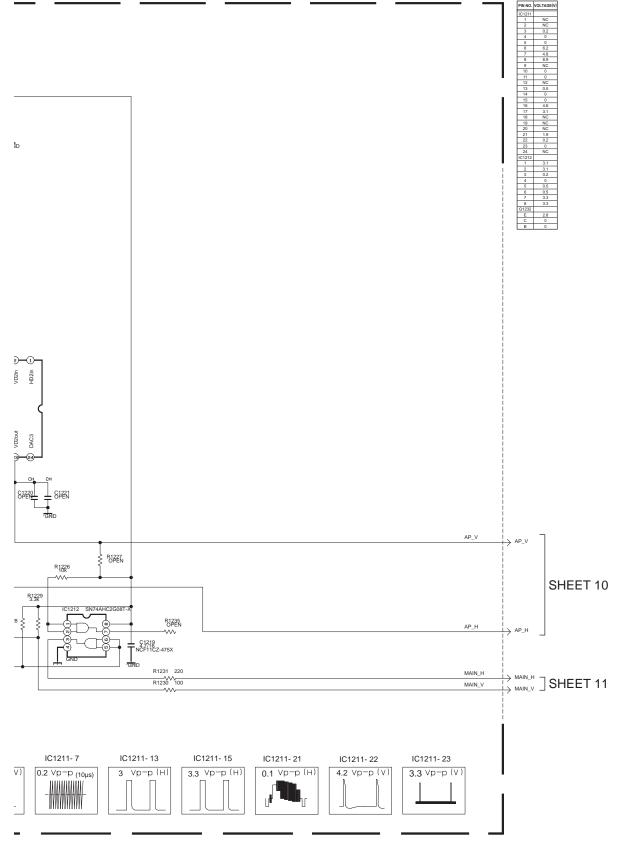


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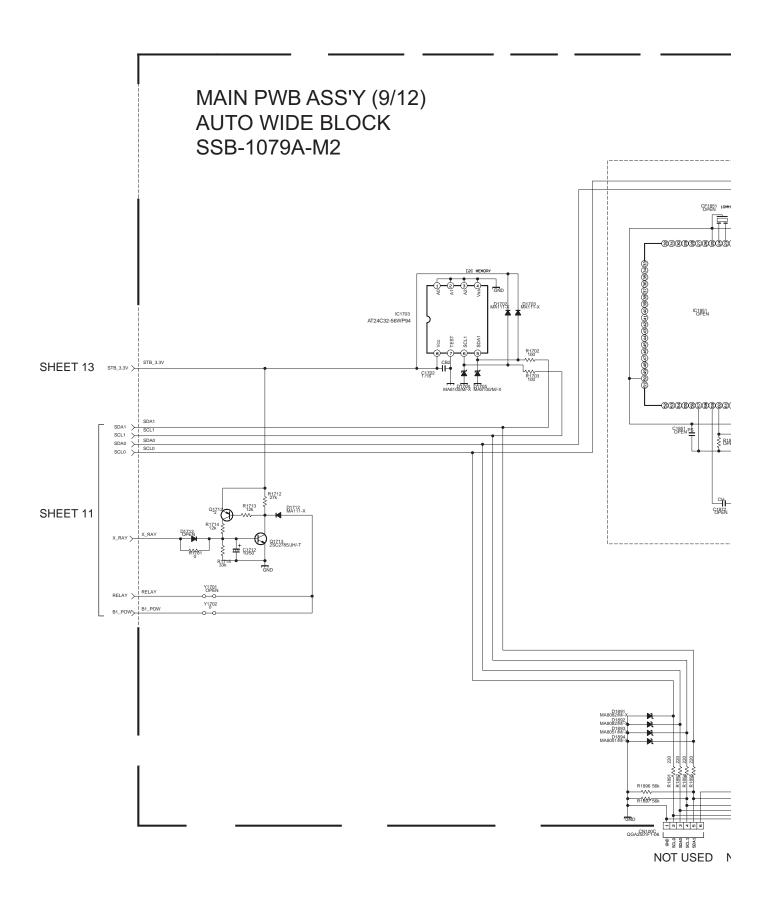




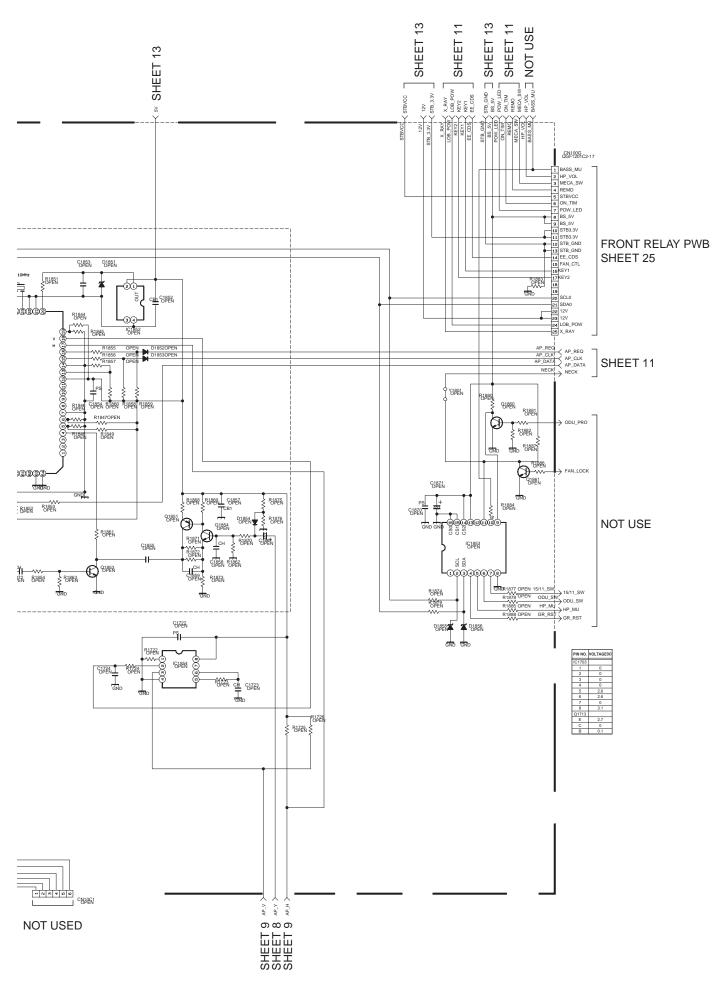
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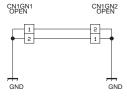
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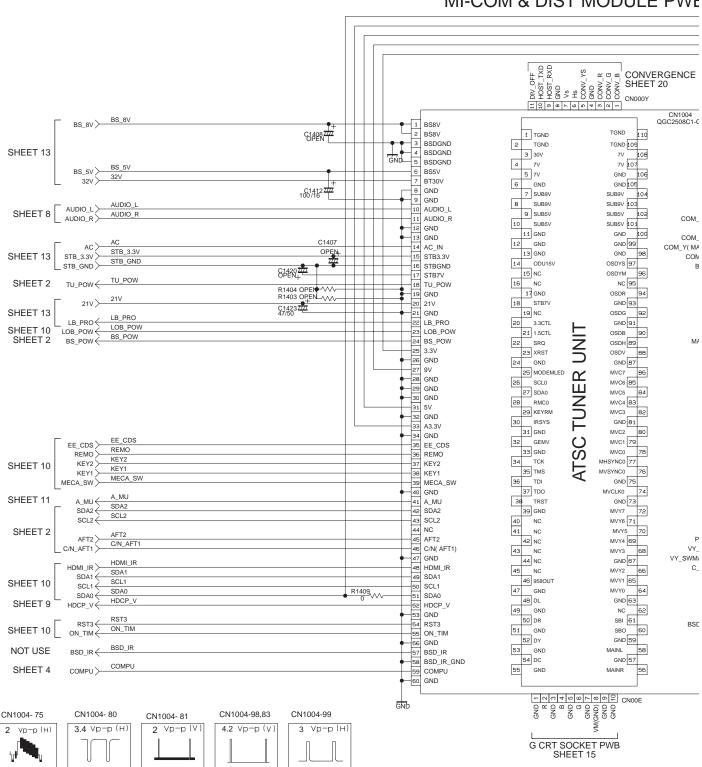


MAIN PWB ASS'Y (10/12) DIST BASE BLOCK SSB-1079A-M2

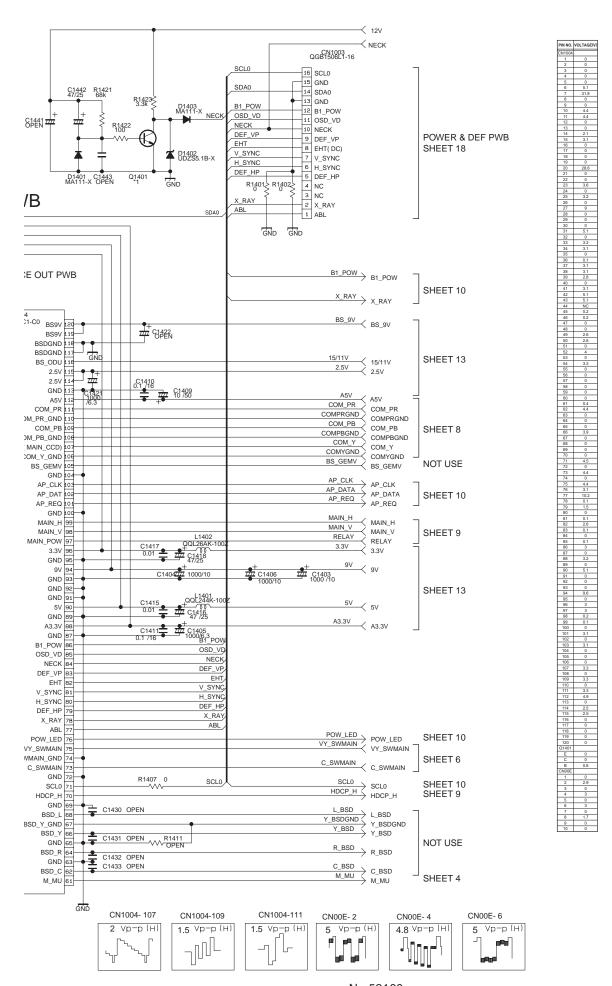


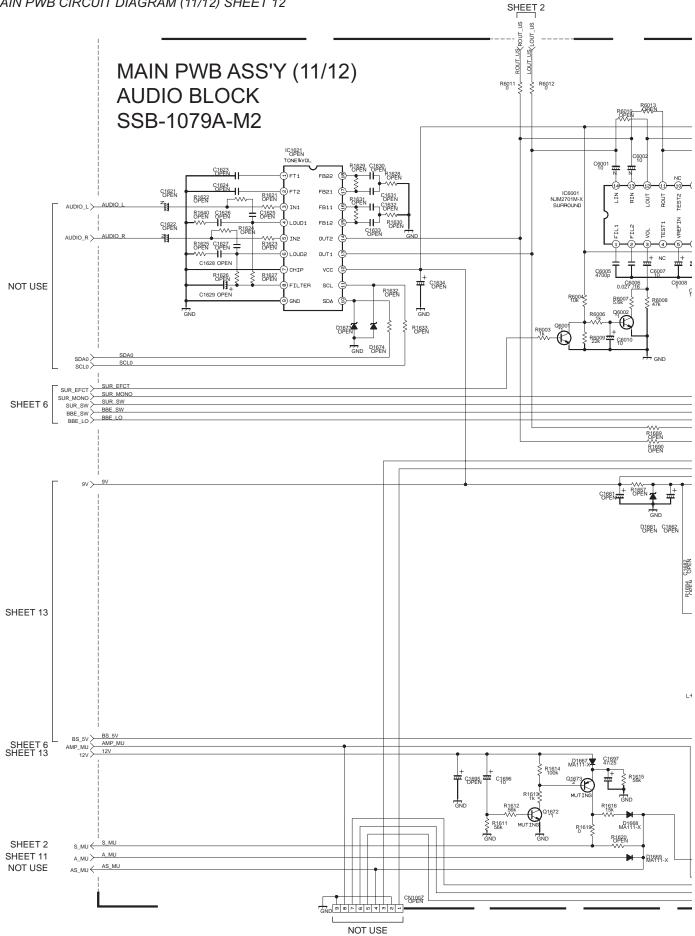
MI-COM & DIST MODULE PWE

C14 OP

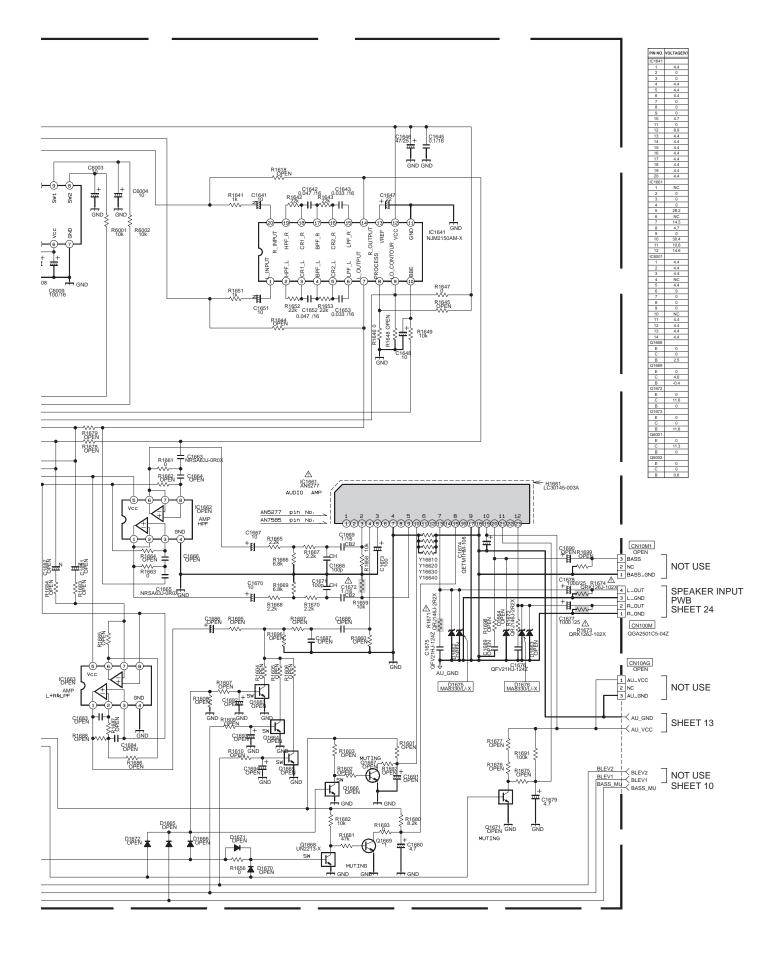


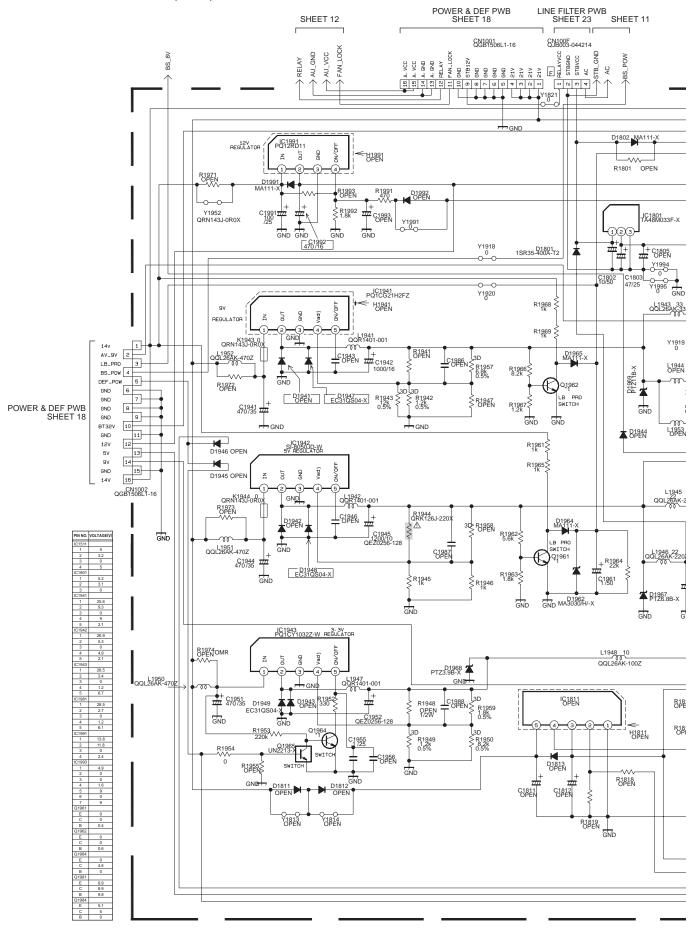
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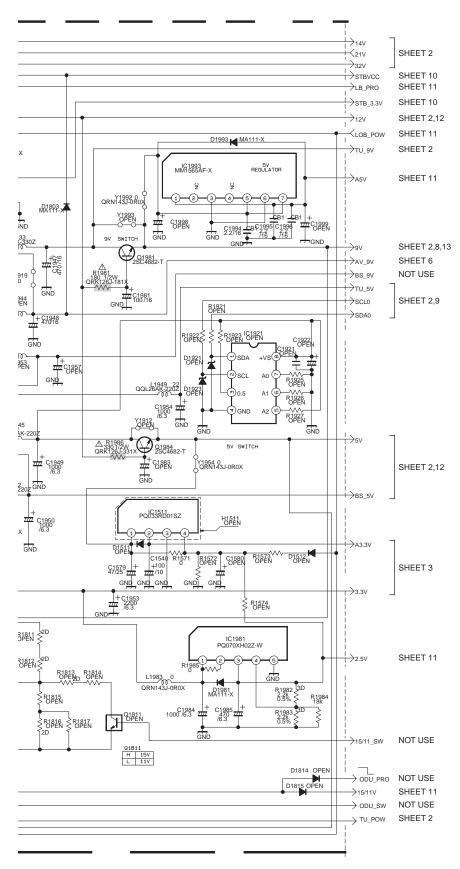


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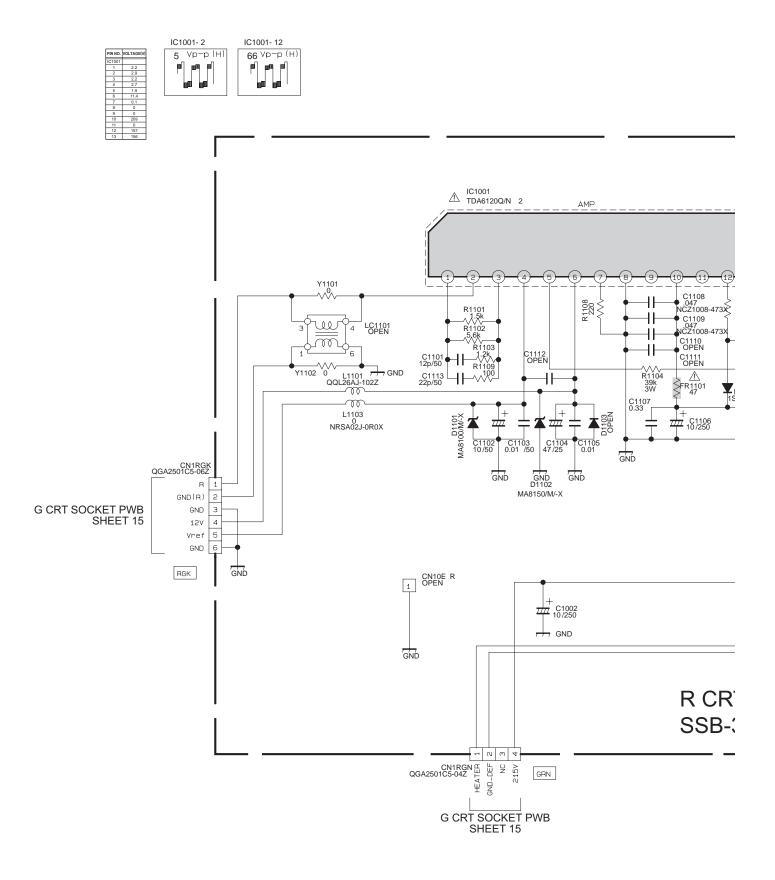




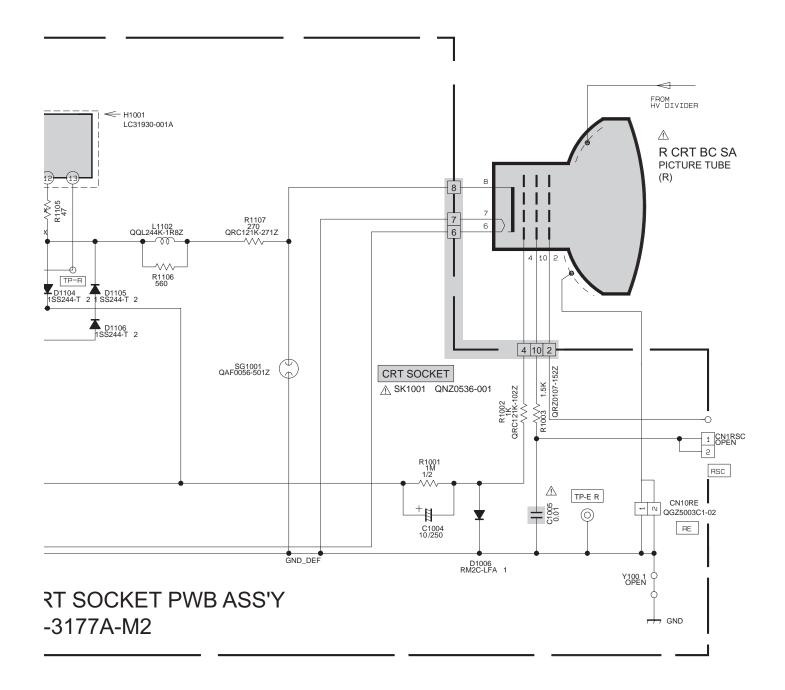
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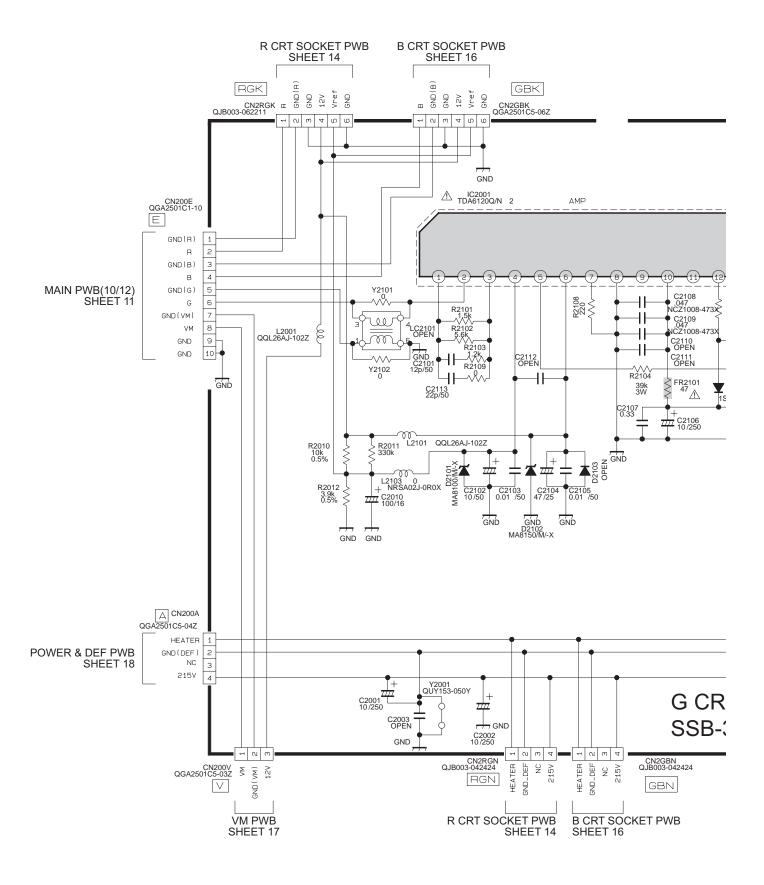


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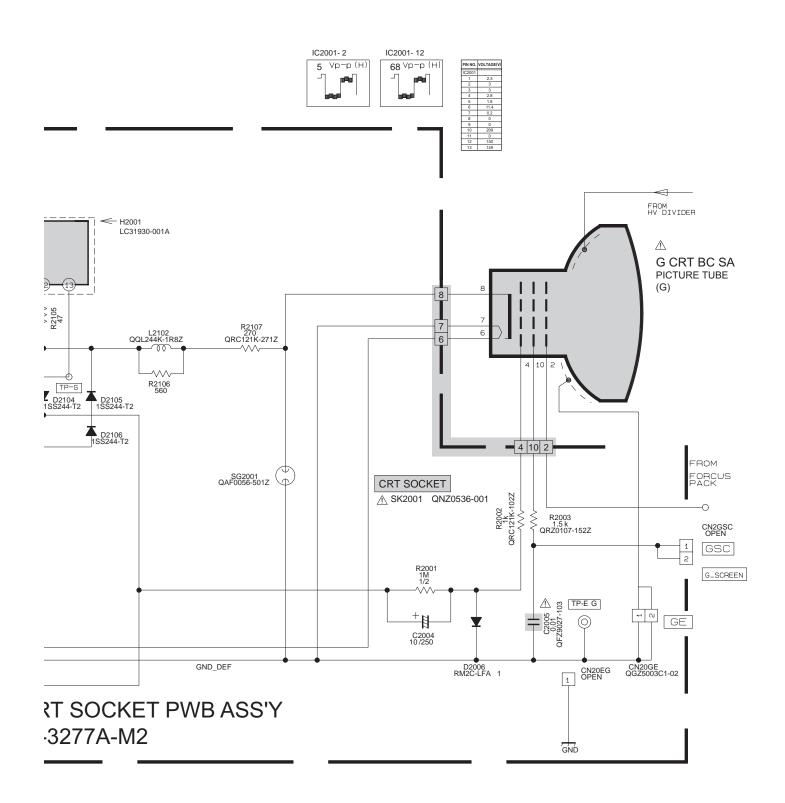


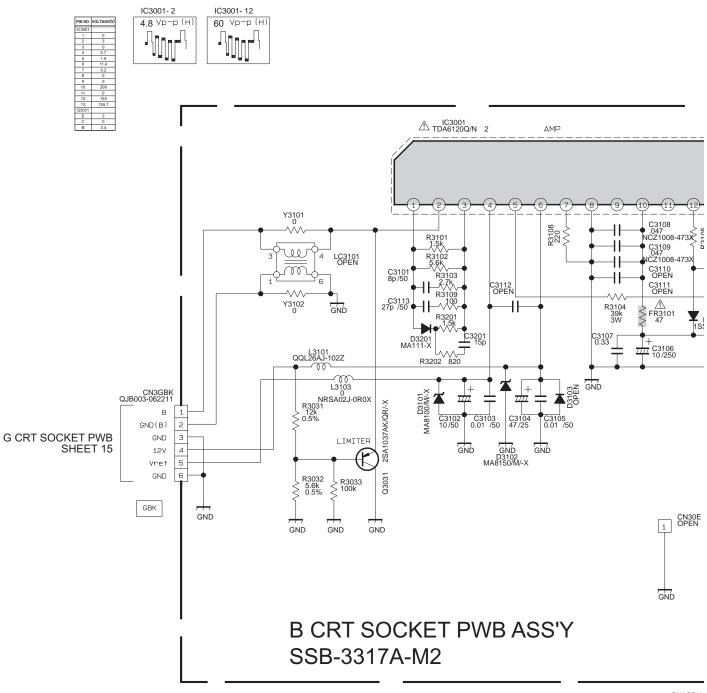
2-33 No.52168





2-35 No.52168

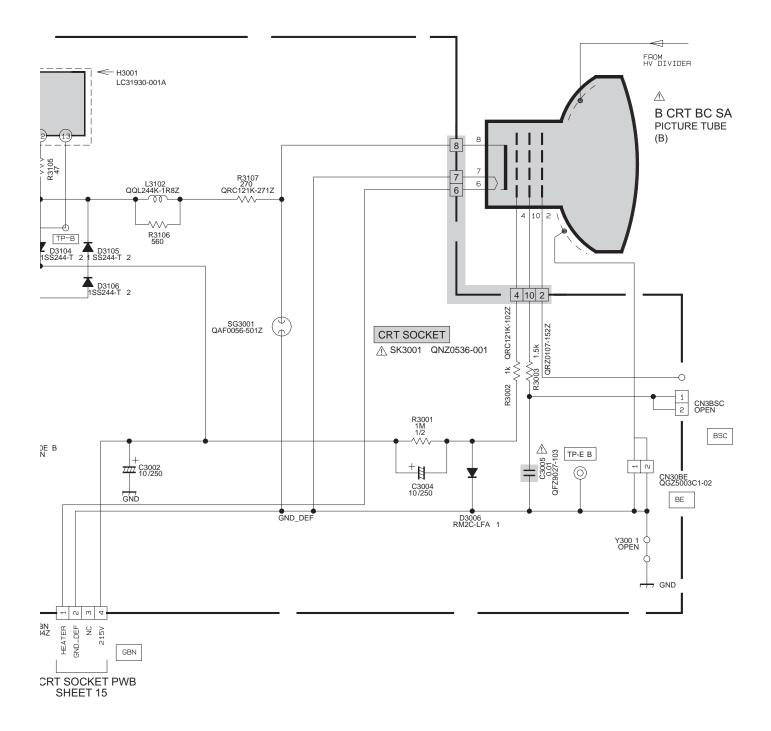


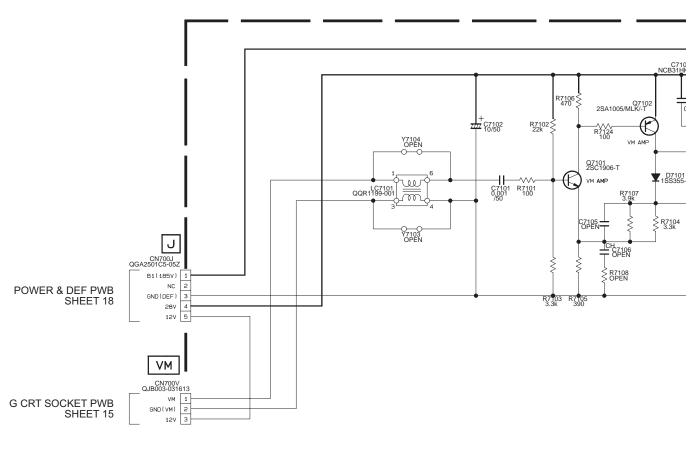


CN3GBN QGA2501C5-04Z

G CF

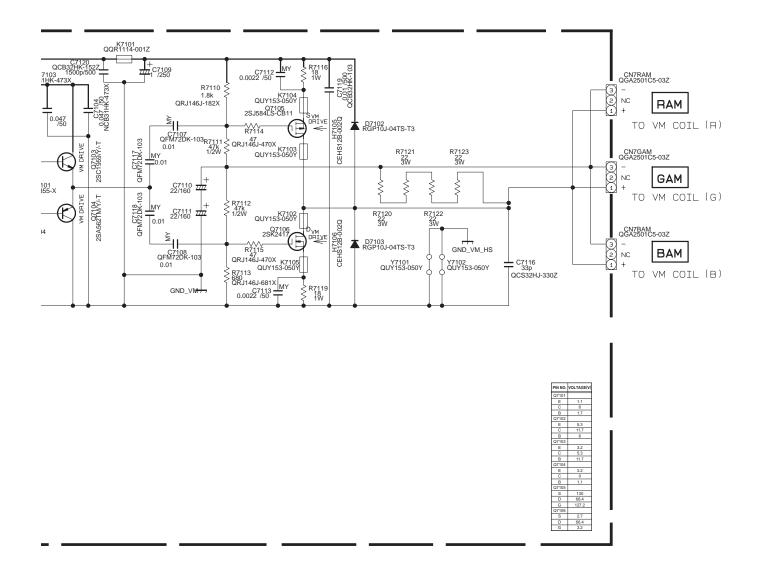
2-37 No.52168

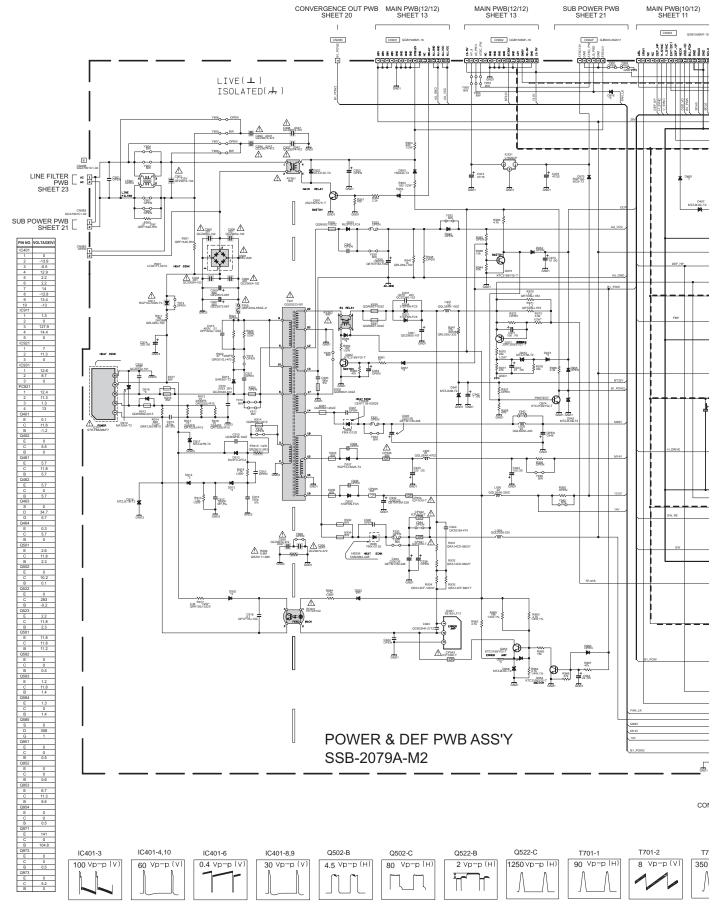




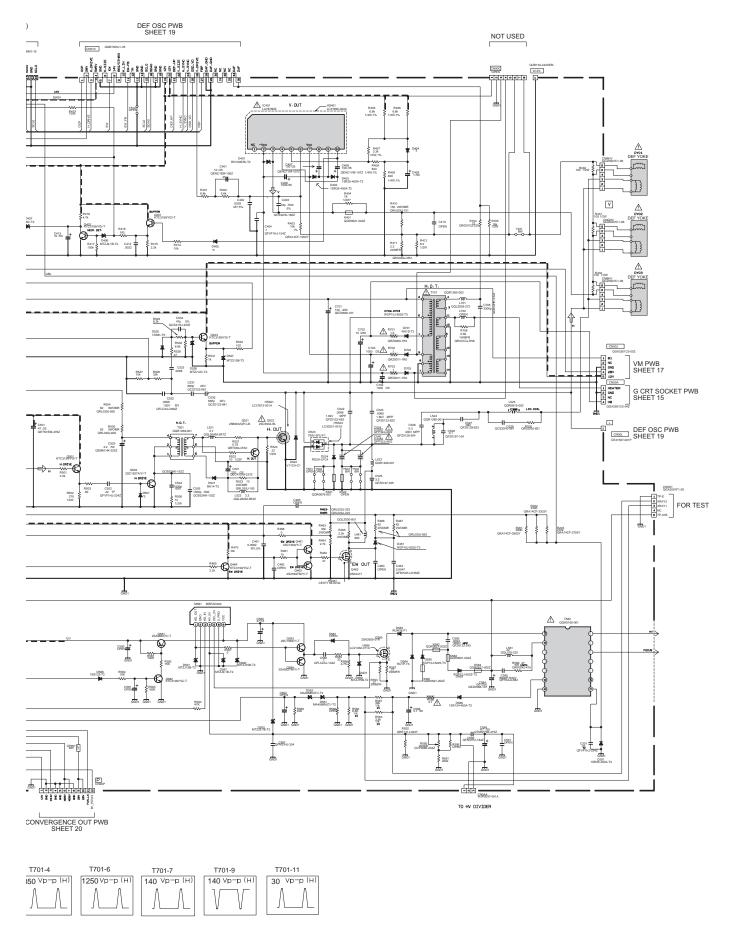
VM PWB ASS'Y SSB-7277A-M2

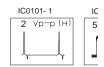
2-39 No.52168

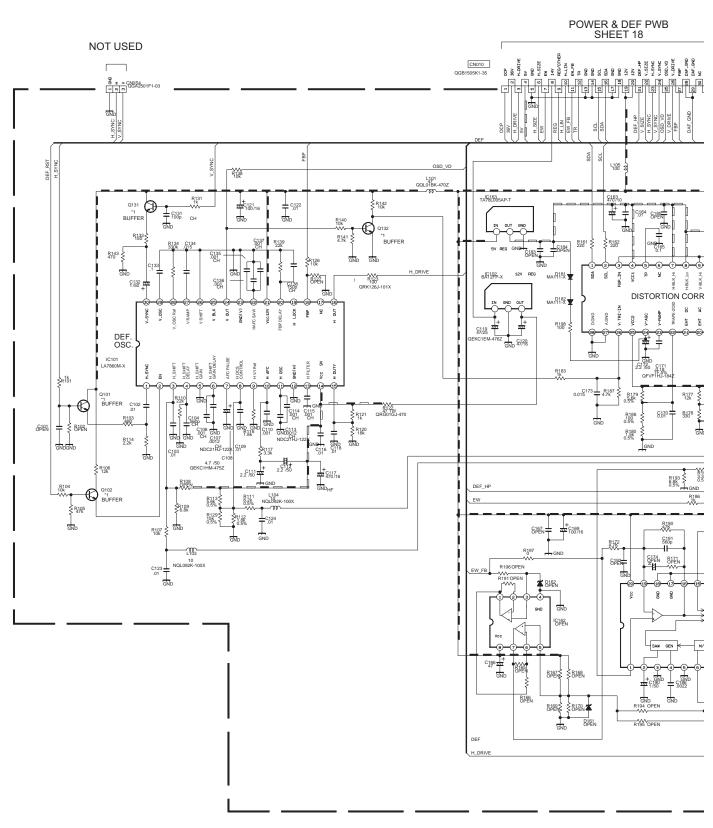




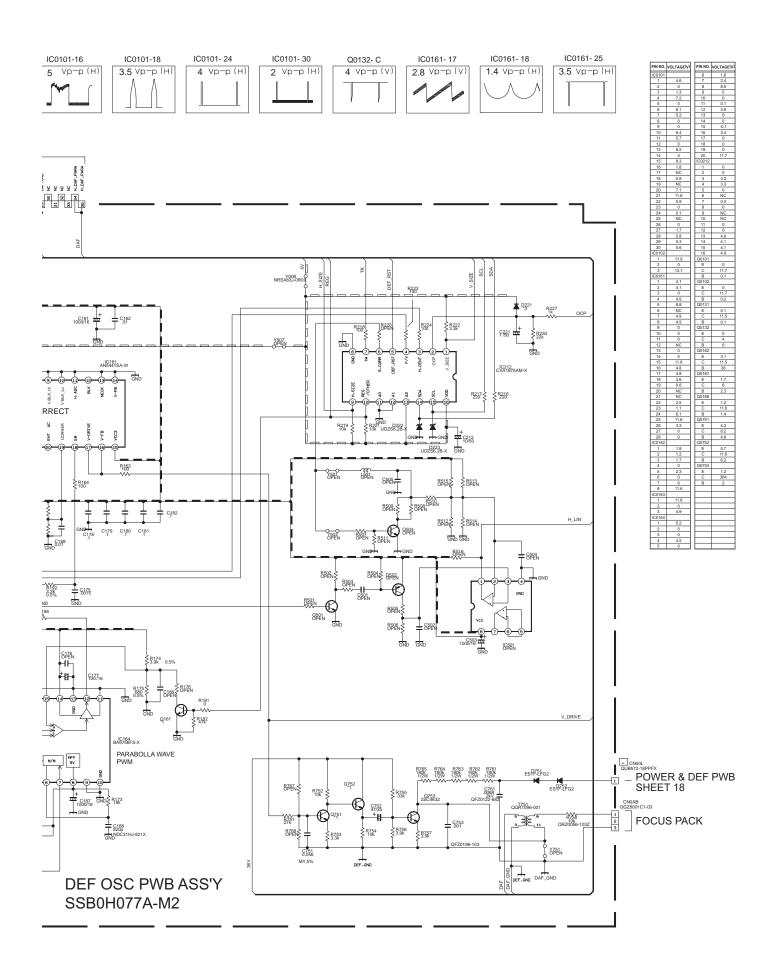
2-41 No.52168

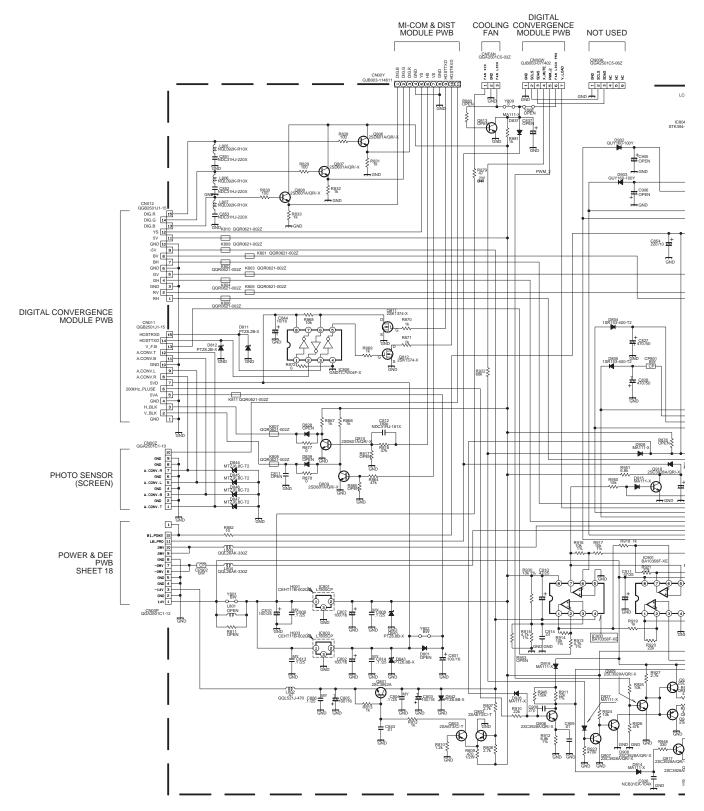






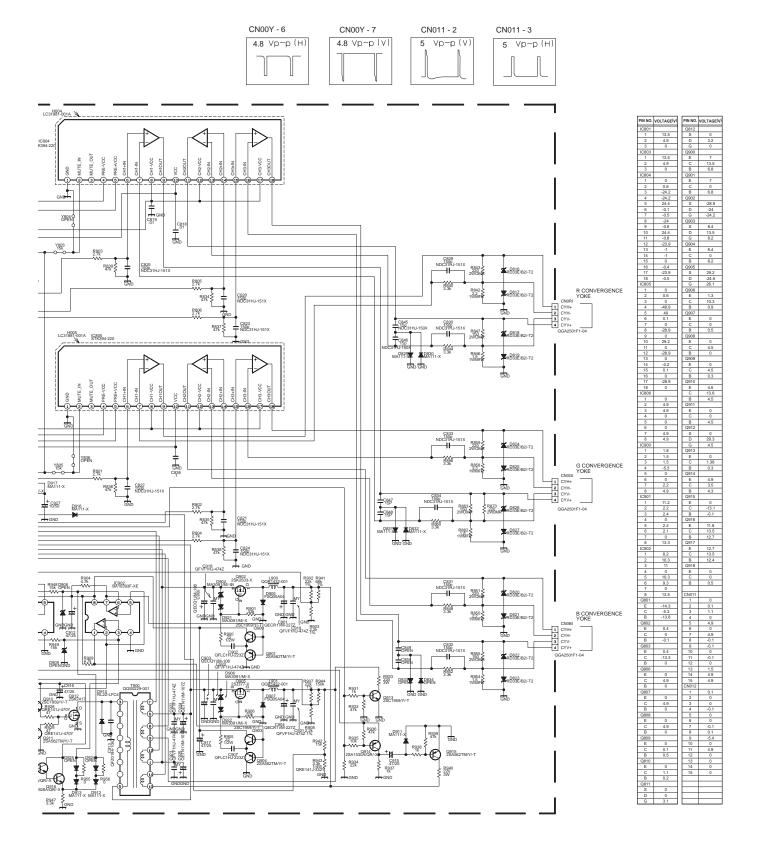
2-43 No.52168

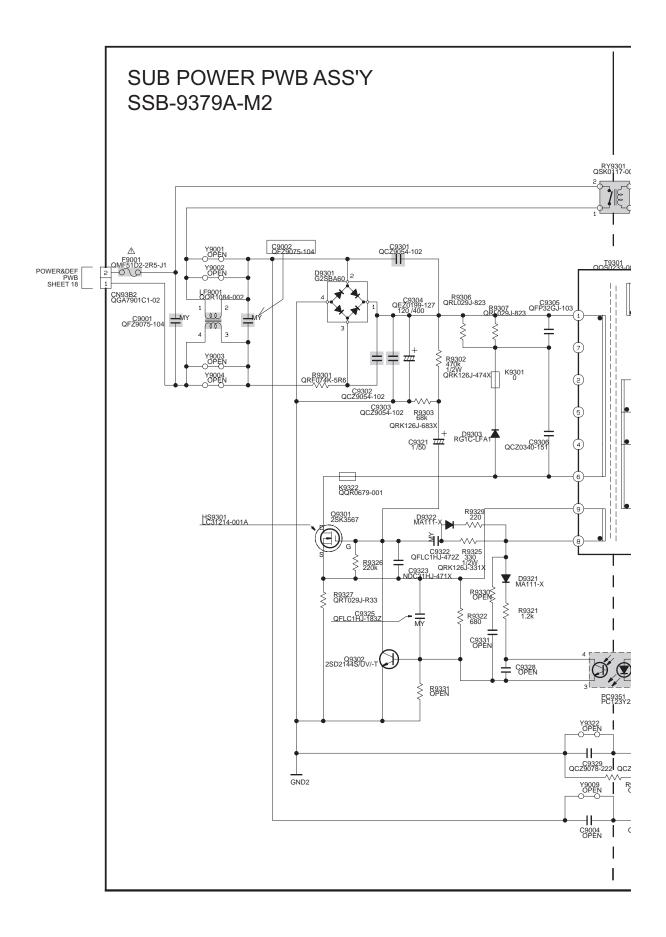




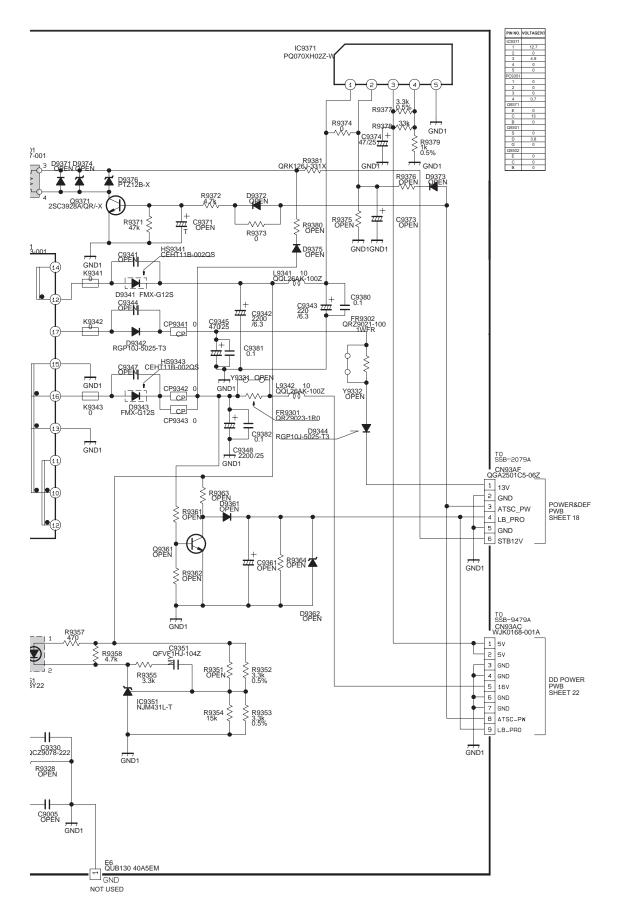
CONVERGENCE OUT PWB ASS'Y SSB-5079A-M2

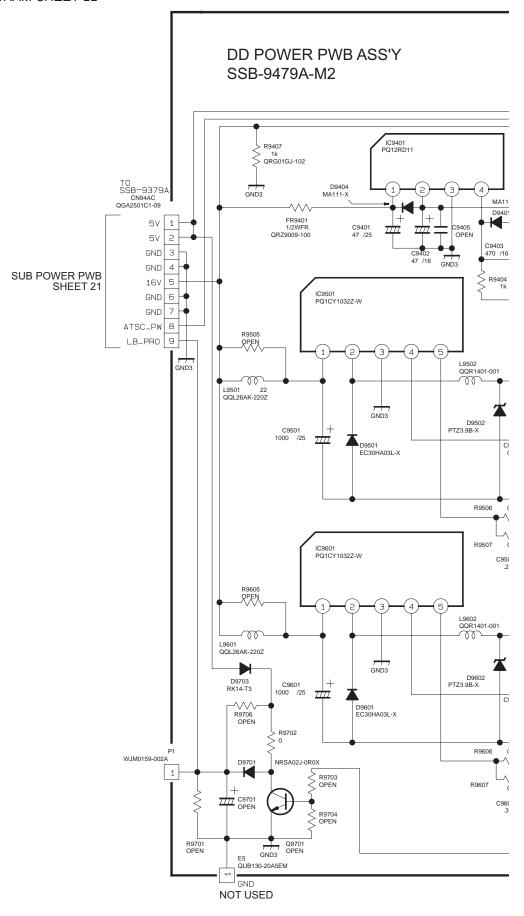
2-45 No.52168



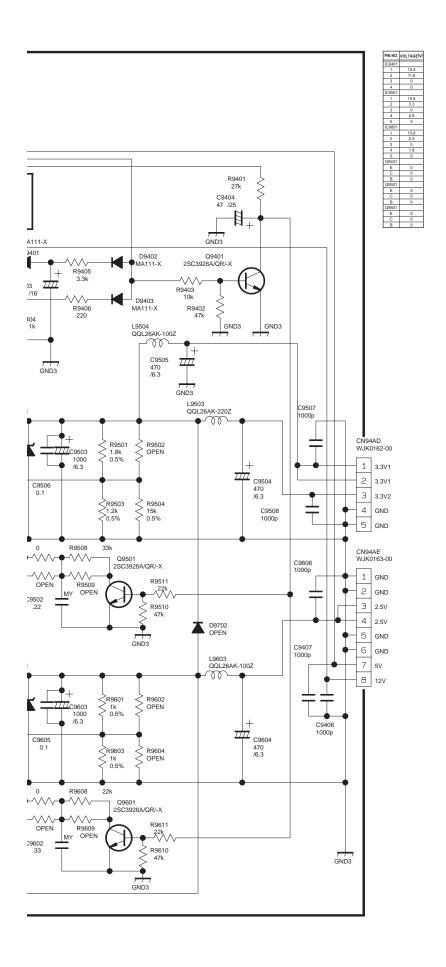


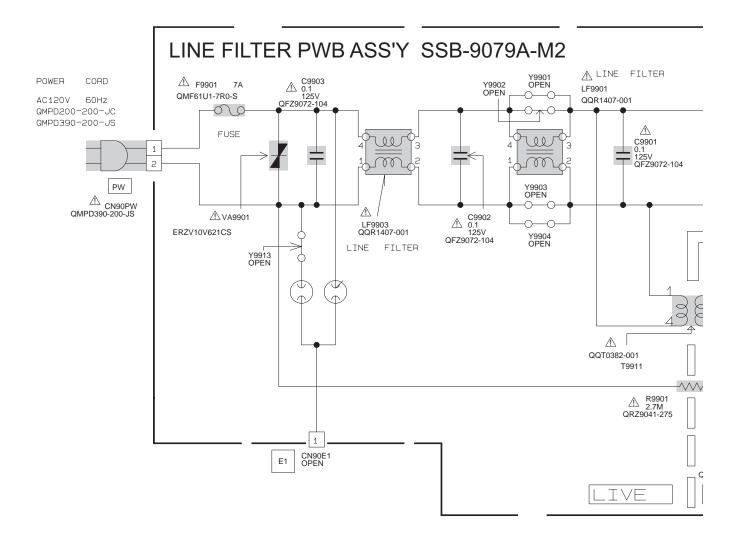
2-47 No.52168



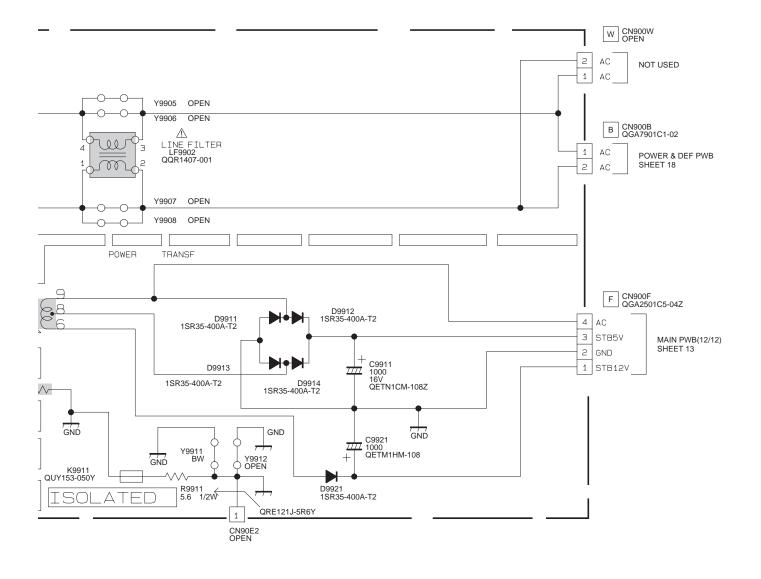


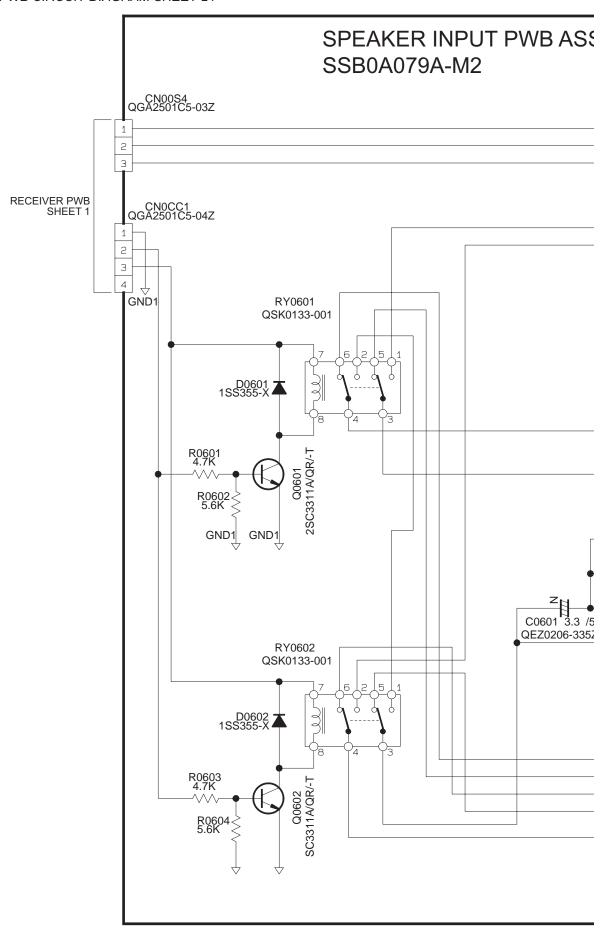
2-49 No.52168



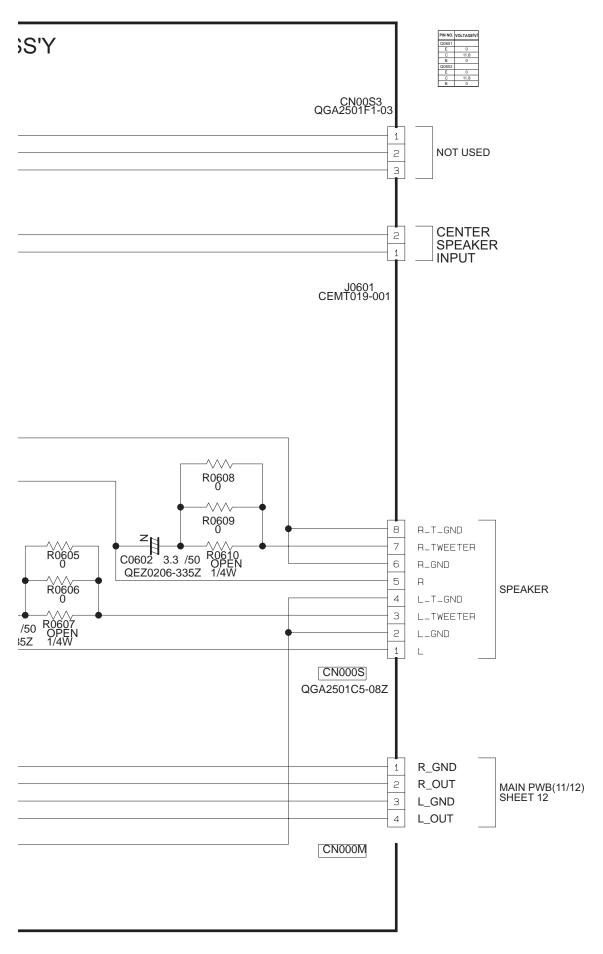


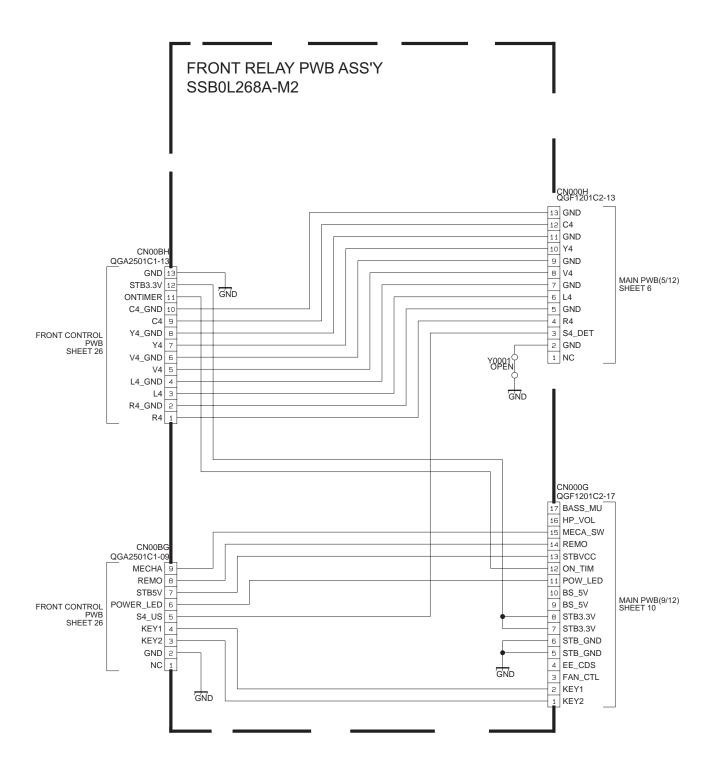
2-51 No.52168



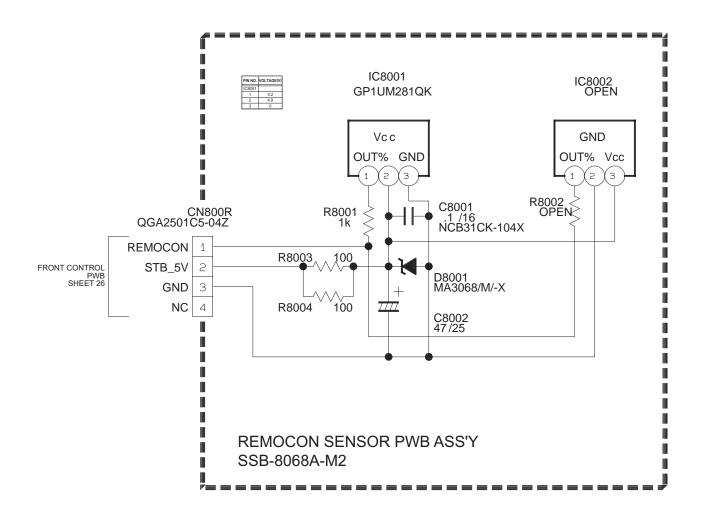


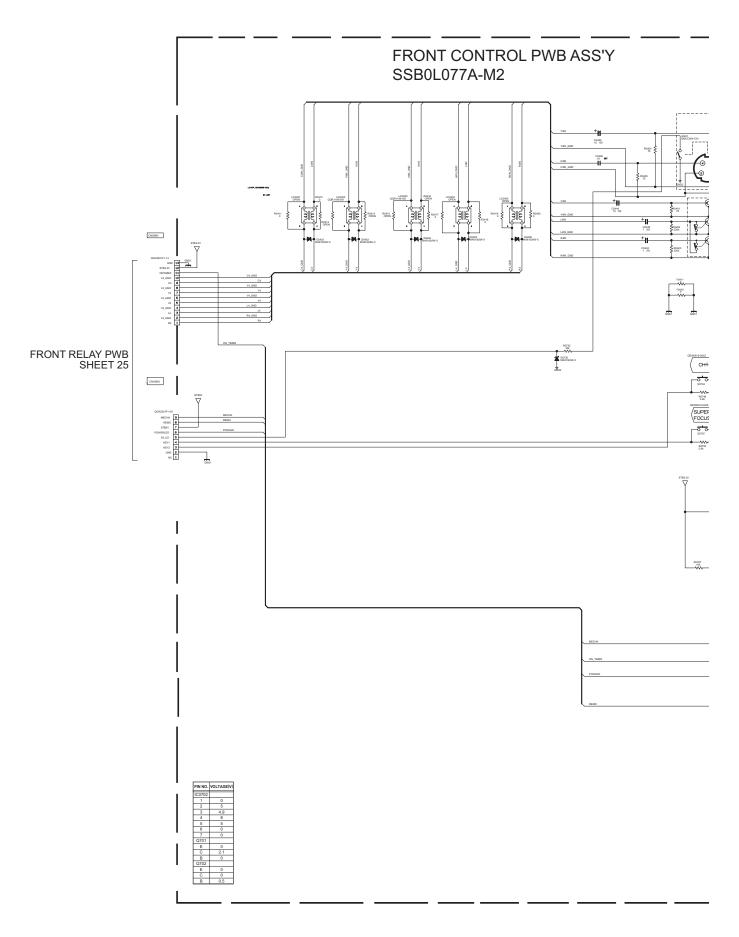
2-53 No.52168



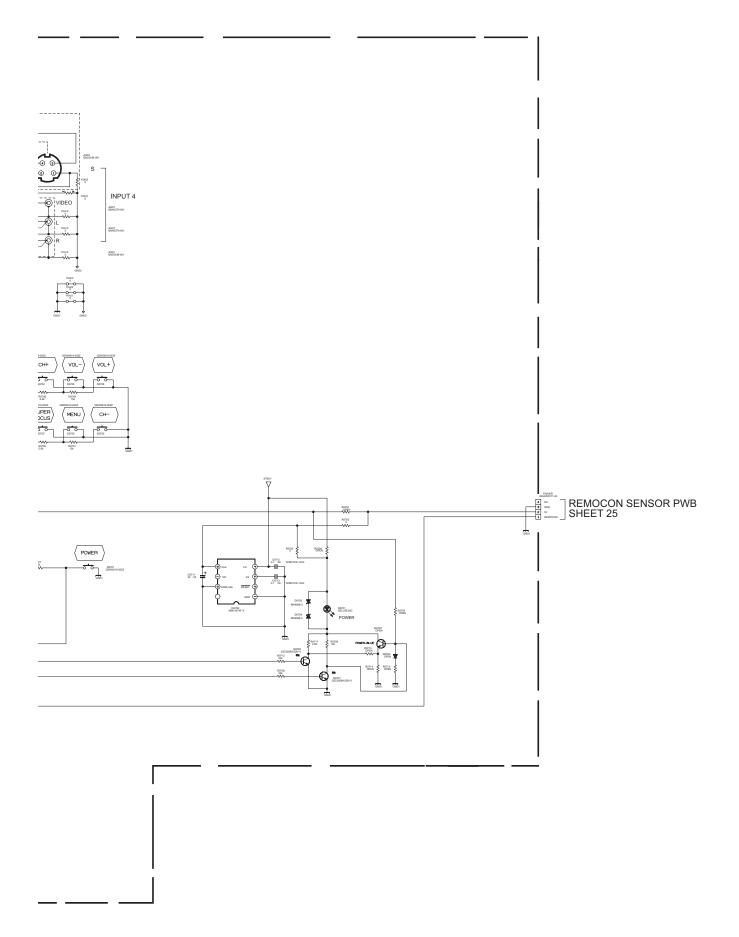


2-55 No.52168





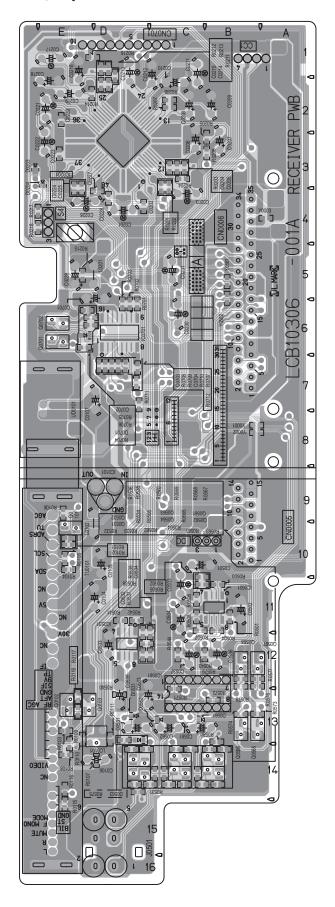
2-57 No.52168



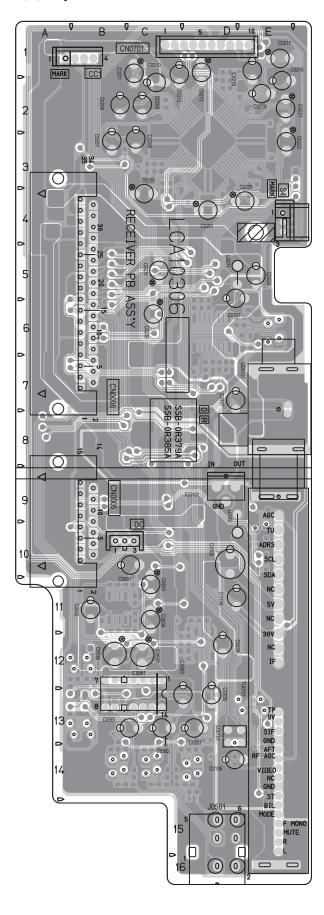
PATTERN DIAGRAMS

RECEIVER PWB PATTERN [SOLDER SIDE]

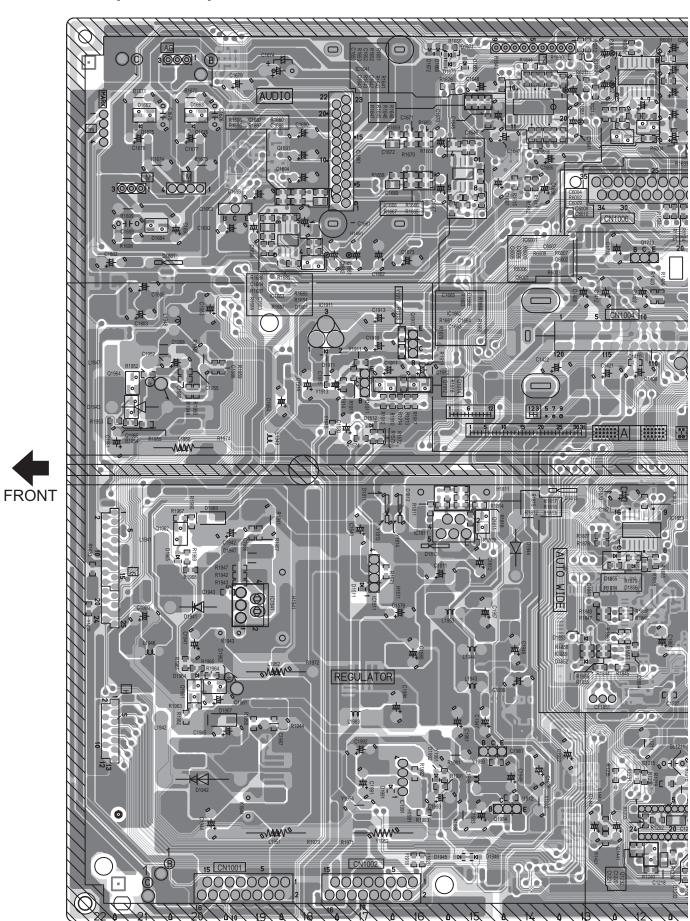




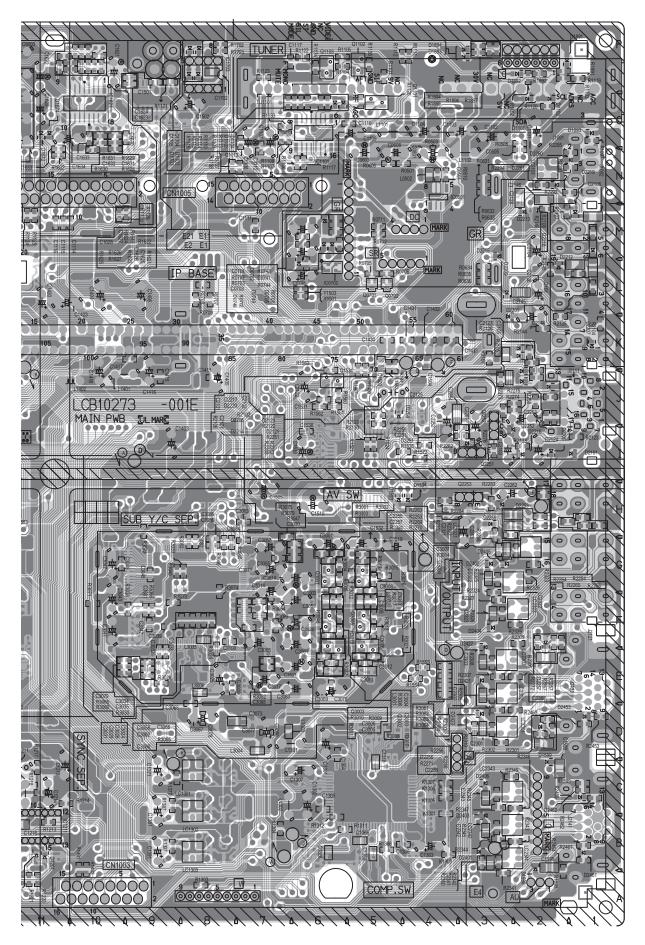
2-59 No.52168

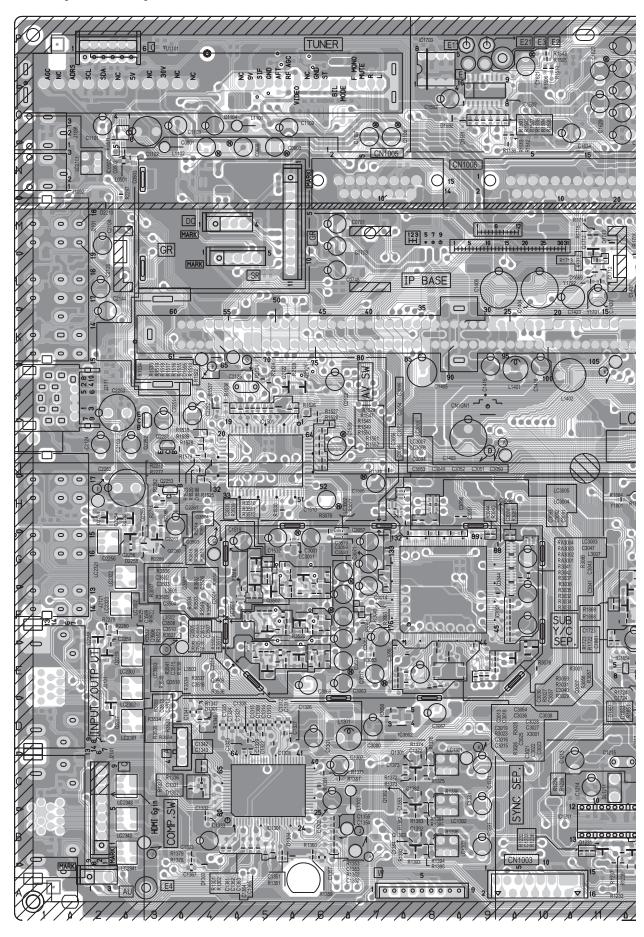




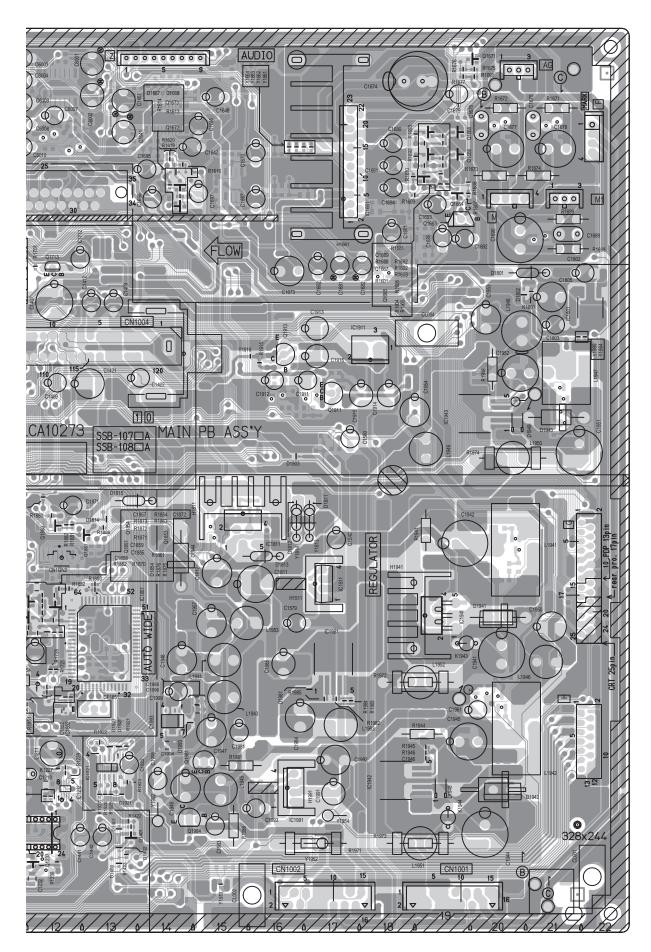


2-61 No.52168

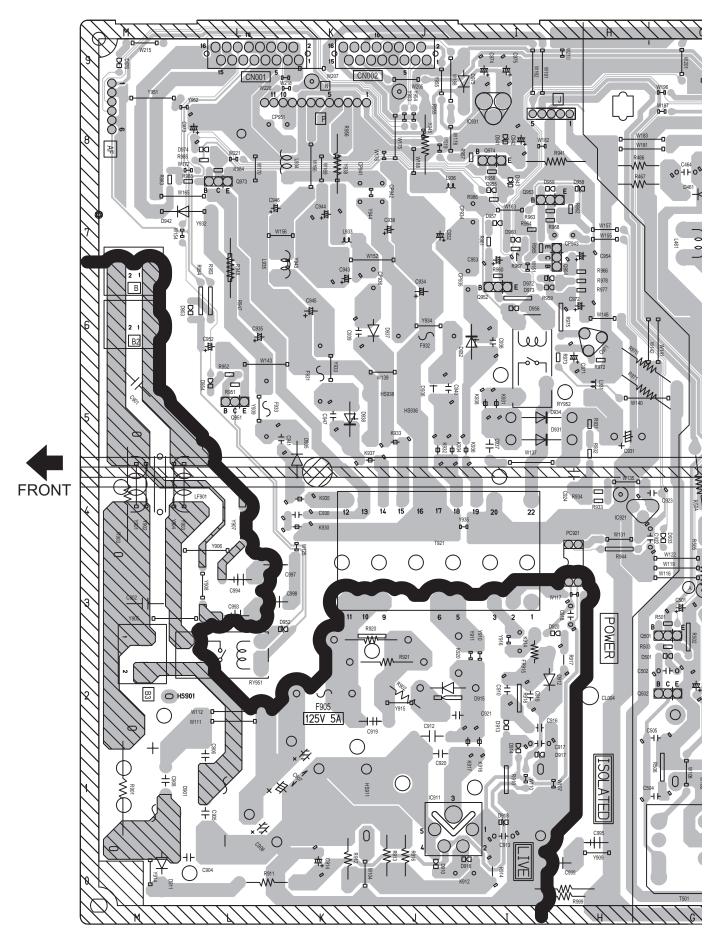




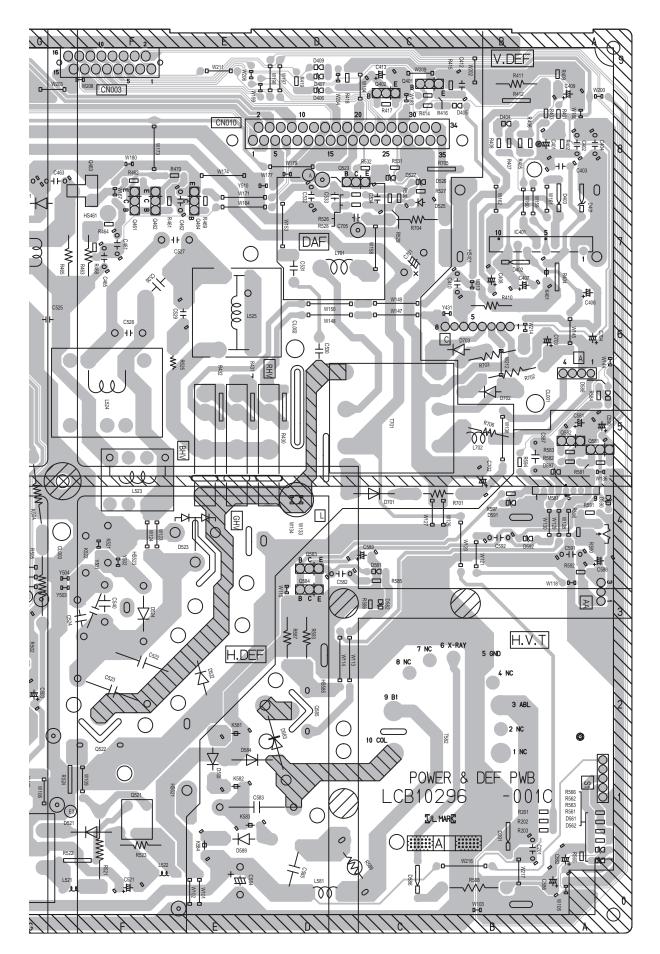
2-63 No.52168



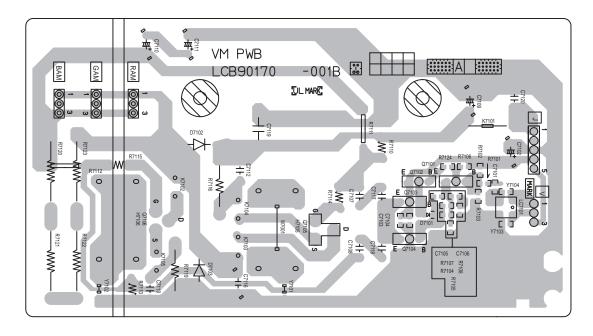




2-65 No.52168

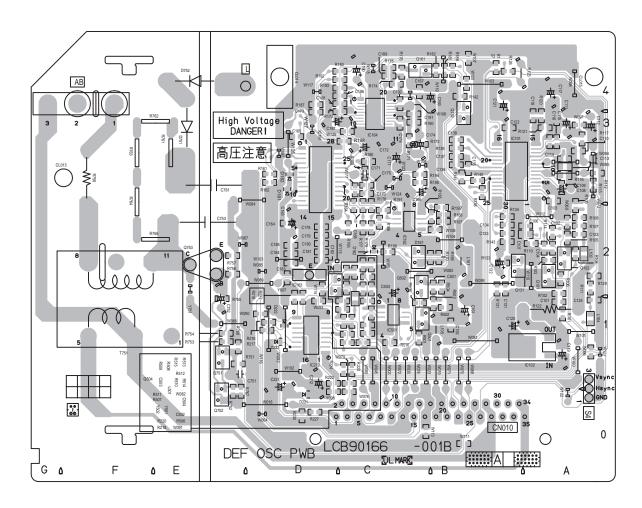


FRONT

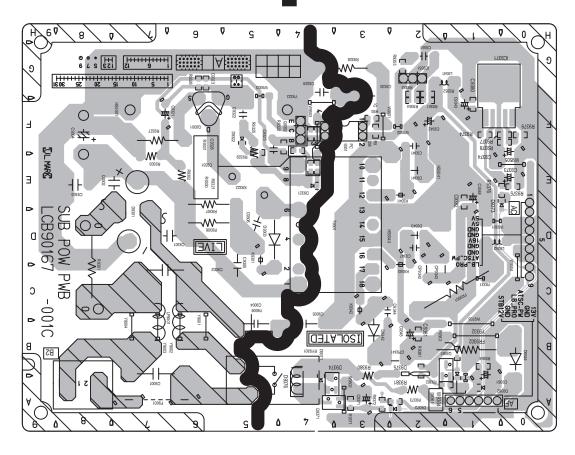


2-67 No.52168

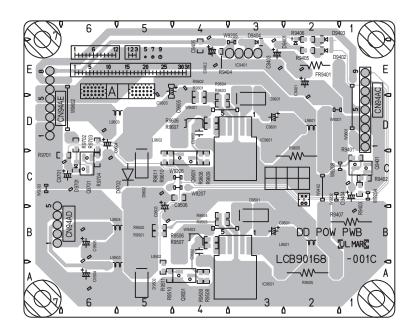






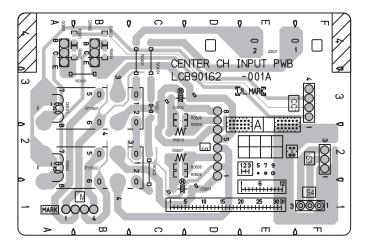


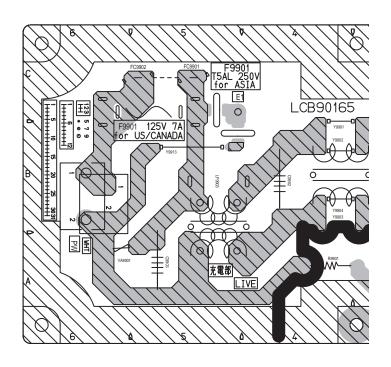
DD POWER PWB PATTERN



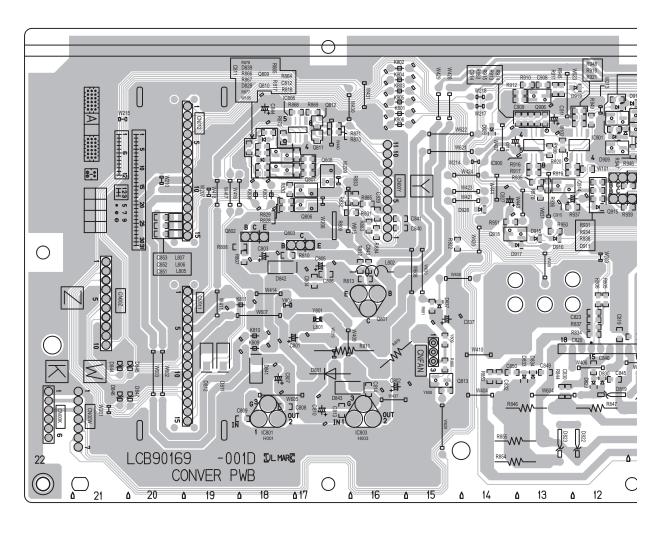
2-69 No.52168



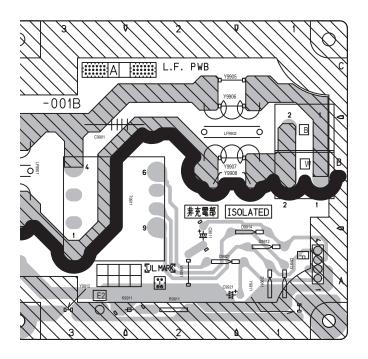




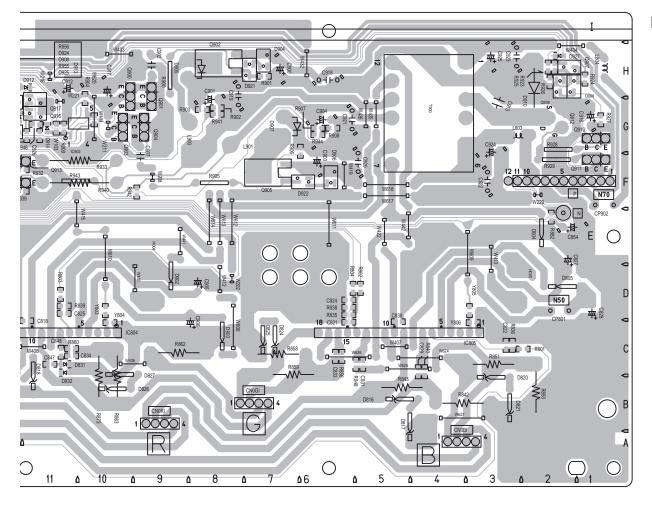
CONVERGENCE OUT PWB PATTERN



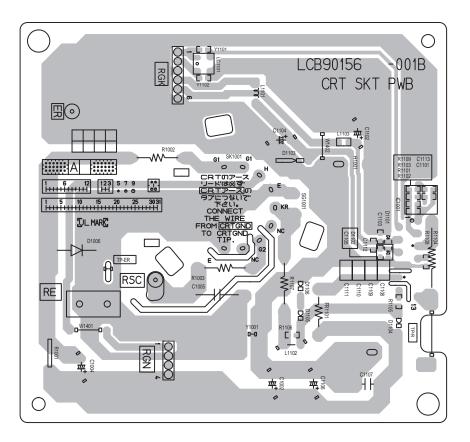
2-71 No.52168





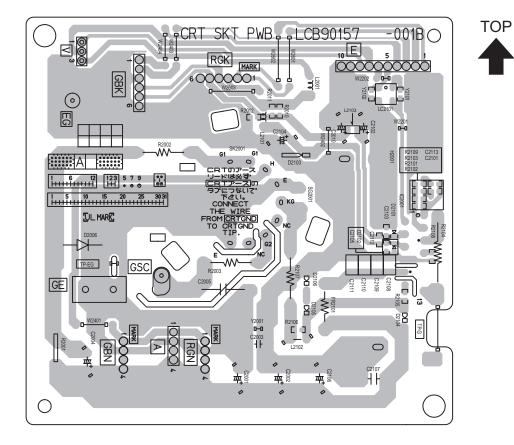




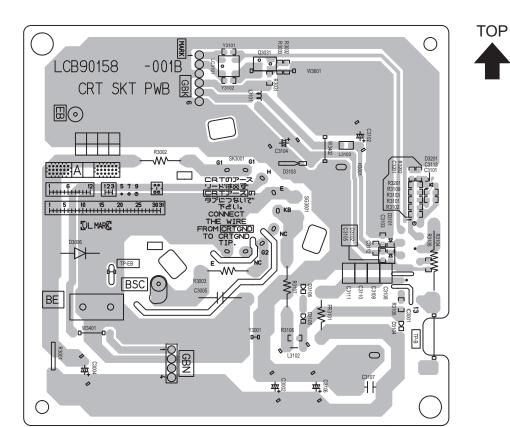




G CRT SOCKET PWB PATTERN

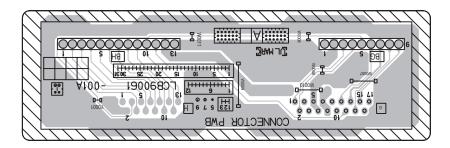


2-73 No.52168



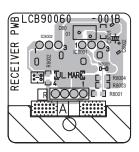






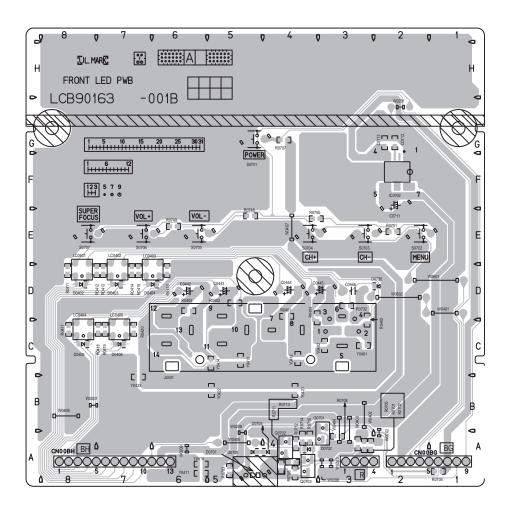
REMOCON SENSOR PWB PATTERN





2-75 No.52168





CHANNEL CHART (US)

MODE		BAND	CHANNEL		TUNER
TV			REAL DISP.		BAND
0	0	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		П
			A B	14 15	I
×		MID	C D E F G H	16 17 18 19 20 21	п
		SUPER	J K L M N O P Q R S T U V W	23 24 25 26 27 28 29 30 31 32 33 34 35 36	
		HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11	37 38 39 40 41 42 43 44 45 46 47	
			W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+25 W+26 W+27 W+28	50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	IV
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	

MODE			CHANNEL		TUNER
TV CATV		BAND	REAL	DISP.	BAND
×		ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+45 W+45 W+45 W+50 W+51 W+52 W+53 W+55 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+66 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
		SUB MID	A-8 A-4 A-3 A-2 A-1	01 96 97 98 99	I
0	×	UHF	14 ¿ 69		IV
TOTAL 180CH { VHF 124CH { UHF 56CH					
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

2-77 No.52168

CHANNEL CHART (CA)

MODE		DAND	CHANNEL		TUNER
TV	CATV	BAND	REAL	DISP.	BAND
	0	VL	02 03 04 05 06		I
		VH	07 08 09 10 11 12 13		
		MID	A B C D E F G H I	14 15 16 17 18 19 20 21	Ш
			J K L M N	23 24 25 26 27 28	
×		SUPER	P Q R S T U V W	29 30 31 32 33 34 35 36	ш
		HYPER	W+1 W+2 W+3 W+4 W+5 W+6 W+7 W+8 W+9 W+10 W+11 W+12 W+13 W+14 W+15 W+16 W+17 W+18 W+19 W+20 W+21 W+22 W+23 W+24 W+25 W+26 W+27 W+28	37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64	
		ULTRA	W+29 W+30 W+31 W+32 W+33 W+34	65 66 67 68 69 70	IV

MODE		DAND	CHANNEL		TUNER
TV	CATV	BAND	REAL	DISP.	BAND
X		ULTRA	W+35 W+36 W+37 W+38 W+39 W+40 W+41 W+42 W+43 W+44 W+45 W+46 W+47 W+48 W+49 W+50 W+51 W+52 W+53 W+56 W+57 W+58 W+59 W+60 W+61 W+62 W+63 W+64 W+65 W+66 W+67 W+68 W+69 W+70 W+71 W+72 W+73 W+74 W+75 W+76 W+77 W+78 W+79 W+80 W+81 W+82 W+83 W+84	71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 100 101 102 103 104 105 106 107 108 109 110 111 112 113 114 115 116 117 118 119 120 121 122 123 124 125	IV
		SUB	A-8 A-4	01 96	I
		MID	A-3 A-2 A-1	97 98 99	П
0	×	UHF	14		IV
TOTAL 180CH					
NOTE: TO RECEIVE THE SUBSCRIPTION OR PREMIUM PROGRAMMING FROM CERTAIN CABLE COMPANIES. SPECIAL ADAPTERS MAY BE REQUIRED.					

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